Radiation Report

TPS7H5031-QMLP Total Ionizing Dose (TID) Report

ABSTRACT

This report discusses the results of the total ionizing dose (TID) testing for the Texas Instruments TPS7H5031-QMLP radiation-hardness-assured PWM controller with integrated gate driver. The study was done to determine TID effects at 100krad(Si) high dose rate (HDR). The results show that all samples pass within device specified test limits.

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1 Device Information

1.1 Product Description

The TPS7H5031 is a radiation-hardness-assured, current mode, single-ended PWM controller with an integrated gate driver that can be utilized in silicon power semiconductor based converter designs. The TPS7H5031 integrates several key functions, such as soft-start, enable, and adjustable slope compensation while maintaining a small package size. The controller also features a 0.6V ±1% voltage reference tolerance to support highly accurate power converter designs. The TPS7H5031-QMLP is packaged in a plastic 24-pin HTSSOP PWP package.

1.2 Device Details

Testing was performed per MIL-STD-883, Test Method 1019, with a sample size per MIL-PRF-38535, Appendix C, test condition A (high dose rate).

Table 1-1. Device and Exposure Details

RHA TID Details: Up to 100krad(Si)	
TI Device	TPS7H5031-QMLP
TI Part Number	5962R2420104PYE
Device Function	PWM Controller with Integrated Gate Driver
Package	24-pin HTSSOP-PWP
Technology	LBC7 (250nm Linear BiCMOS)
Quantity tested	HDR: • 25 units biased from 3krad(Si) to 100krad(Si) • 25 units unbiased from 3krad(Si) to 100krad(Si) • 5 correlation units
Lot Accept/Reject	Passes up to 100krad(Si); no observed fails
HDR Radiation Facility	Texas Instruments CLAB Dallas, Texas
Die Lot Number and Assembly Lot Number	DIE: 5133889 Assembly: 5241187
HDR Dose Rate	149.3915rad(Si)/s
HDR Radiation Source	Gammacell 220 Excel (GC-220E) Co-60
Irradiation and Test Temperature	Ambient, room temperature controlled to 25°C ±6°C per MIL-STD-883 and MIL-STD-750

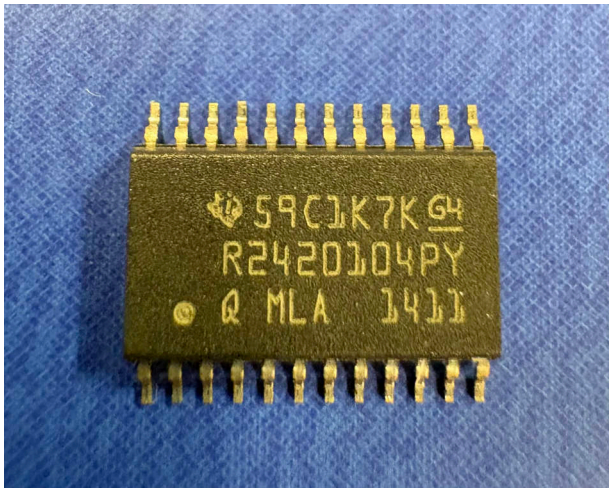

Figure 1-1. Device Used in Exposure (Front)

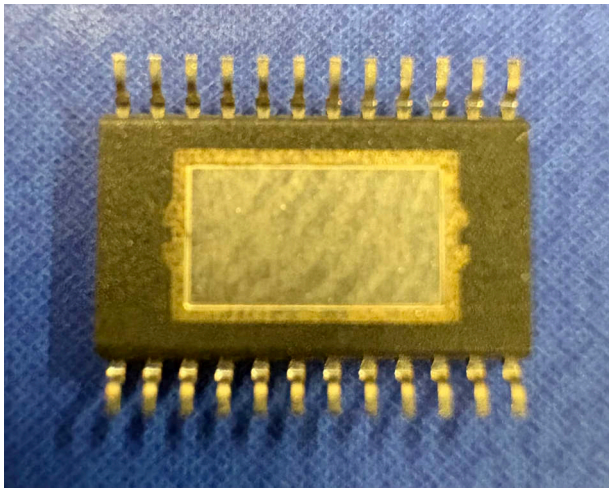

Figure 1-2. Device Used in Exposure (Back)

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2 Total Dose Test Setup

2.1 Test Overview

The TPS7H5031-QMLP was tested according to MIL-STD-883, Test Method 1019.9. For this testing, condition A was used. For this test, the product was irradiated up to the target radiation level, and then put through full electrical parametric testing on the production automated test equipment (ATE). All devices remained functional passing all parametric test limits.

2.2 Test Description and Facilities

The TPS7H5031-QMLP HDR exposure was performed on biased devices in a Co-60 Gammacell at the TI Dallas C-Lab facility in Dallas, Texas. The unattenuated dose rate of this cell is 149.315rad(Si)/s. After exposure, the devices were packed in dry ice (per MIL-STD-883 Method 1019.9 section 3.10) and post-radiation electrical testing was completed at TI's Dallas Forest Lane facility. Test limit guard bands are set within SMD electrical test limits.

Post-radiation measurements were taken within 30 minutes after removing device from the dry ice container. The devices were allowed to reach room temperature prior to electrical post-radiation measurements.

2.3 Test Setup Details

The devices under HDR exposure were tested in two conditions, biased and unbiased, as described in the following sections.

2.3.1 Unbiased

For the unbiased HDR conditions, the exposure was performed with all pins grounded.

2.3.2 Biased

Figure 2-1 through Figure 2-3 are shown for the biased HDR test conditions.

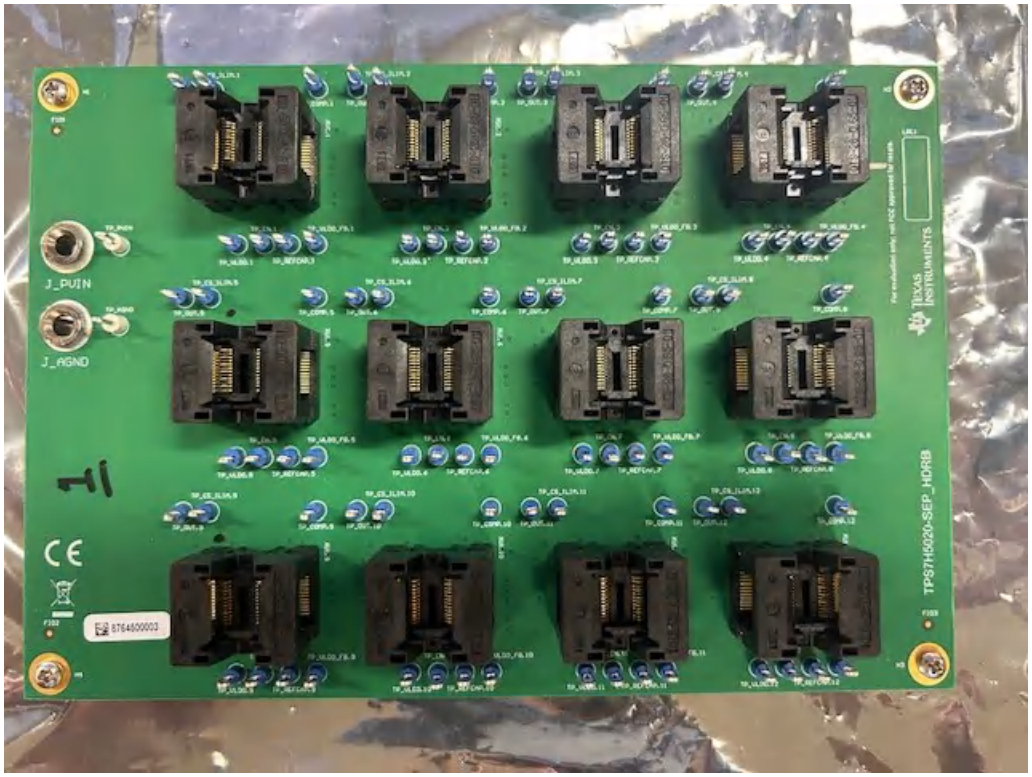

Figure 2-1. HDR TID Hardware

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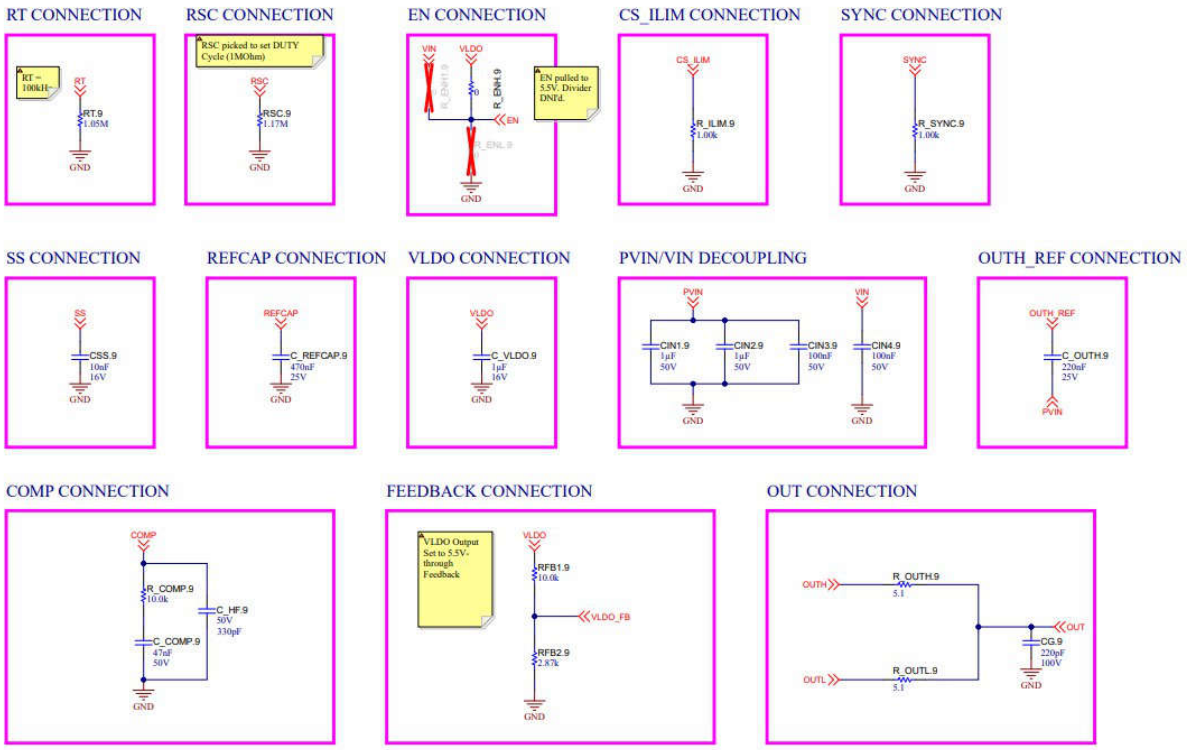

Figure 2-2. Supplies and GND HDR TID Bias Diagram

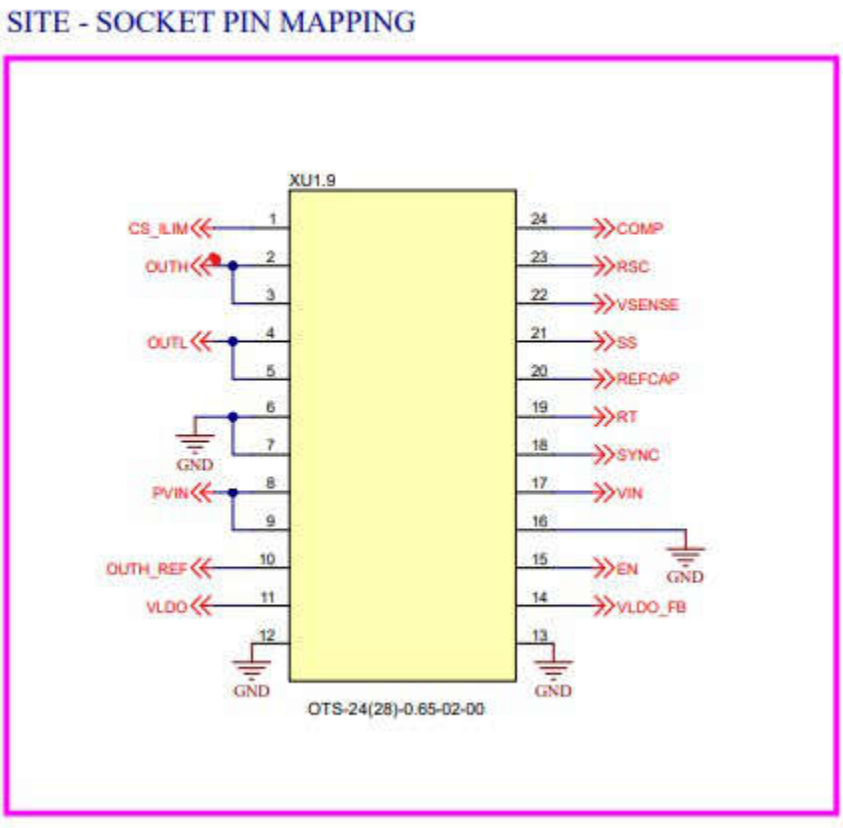

Figure 2-3. HDR TID Bias Diagram (VLDO_FB is not used on TPS7H5031-SP)

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2.4 Test Configuration and Conditions

HDR devices were stressed up to 100krad(Si) for biased and unbiased conditions.

Table 2-1. HDR Biased Device Information

Total Samples: 25 units + 5 control					
Exposure Levels:					
Control	3krad(Si)	10krad(Si)	30krad(Si)	50krad (Si)	100krad (Si)
1748, 1056, 0558, 1737, 1099	0675, 0901, 0981, 1039, 1113	1003, 1072, 1154, 1679, 1697	1359, 1398, 1662, 1703, 1736	0744, 0799, 1411, 1474, 1604	0534, 0563, 1053, 1222, 1540

Table 2-2. HDR Unbiased Device Information

Total Samples: 25 units + 5 control					
Exposure Levels:					
Control	3krad(Si)	10krad(Si)	30krad(Si)	50krad (Si)	100krad (Si)
1748, 1056, 0558, 1737, 1099	0491, 0570, 0889, 1255, 1554	0454, 0614, 1142, 1465, 1704	0444, 0508, 0842, 1331, 1375	0390, 0930, 1095, 1215, 1229	0411, 0500, 0713, 0968, 0976

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3 TID Characterization Test Results

3.1 TID Characterization Results Summary

The results show that all TPS7H5031-QMLP devices were fully functional and within specification limits up to 100krad(Si) HDR. Overall, the TPS7H5031-QMLP devices show a strong degree of hardness to TID HDR exposure levels at 100krad(Si) under biased and unbiased conditions. Performance is measured based on the difference between pre- and post-irradiation with respect to SMD electrical minimum and maximum specification. The measurements taken post-irradiation for each sample set showed a marginal shift for most parameters at each dose level for both biased and unbiased. (see Data Sheet Electrical Parameters for the electrical parameters). Note that test numbers are listed only for parameters tested post-TID.

See Appendix: HDR TID Report for HDR report.

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3.2 Data Sheet Electrical Parameters

Specifications are at ambient temperature TA = 25°C, PVIN = VIN = 8V to 14V unless otherwise noted. Parameters not listed in the table are omitted either because there is no parametric data or because verification was done through bench testing. Parameters without MIN and MAX values are functionally assured by ATE testing.

Table 3-1. TPS7H5031-QMLP Data Sheet Electrical Parameters

PARAMETER		TEST CONDITIONS		MIN	TYP	MAX	UNIT	Test #
SUPPLY VOLTAGES AND CURRENTS								
IDD	Operating supply current	No load for OUT, PVIN = VIN	fSW = 100kHz		6.8	11	mA	14.3, 14.4, 14.16
			fSW = 500kHz		8.5	17		14.5, 14.7, 14.18
		CLOAD = 1000pF for OUT, PVIN = VIN	fSW = 100kHz		8.5	12	mA	14.2
			fSW = 500kHz		14.5	22		14.21
Istart	Start-up current	VIN = 6.5V			4.8	6	mA	
IDD(dis)	Standby current	EN = 0V				8	mA	14.6, 14.8, 14.19
VLDO	Internal linear regulator output voltage	CVLDO = 1µF	8V ≤ VIN ≤ 14V	4.8	5	5.2	V	15.15, 15.16, 15.17
VLDO_DO	Internal linear dropout voltage	IVLDO = 25mA, CVLDO = 1µF				0.5	V	15.19, 15.20, 15.21
ENABLE AND UNDERVOLTAGE LOCKOUT								
VENR	Enable rising threshold			0.57	0.63	0.66	V	16.7, 16.10, 16.17
VENF	Enable falling threshold			0.48	0.52	0.55	V	16.8, 16.11, 16.18
IEN	Enable input leakage current	VIN = 14V	EN = 1V		1	100	nA	16.13, 16.15
			EN = 7V		30	700		16.14, 16.16
PVINUVLOR	PVIN UVLO rising			7.2	7.5	7.8	V	17.13, 17.19
PVINUVLOF	PVIN UVLO falling			6.9	7.2	7.5	V	17.14, 17.20
VINUVLOR	VIN UVLO rising			7.2	7.5	7.8	V	17.16, 17.22
VINUVLOF	VIN UVLO falling			6.9	7.2	7.5	V	17.17, 17.23
VLDOUVLOR	VLDO UVLO rising			3.65	3.77	3.95	V	17.7, 17.10
VLDOUVLOF	VLDO UVLO falling			3.45	3.59	3.75	V	17.8, 17.11
SOFT START								
ISS	Soft-start current	SS = 0.3V		2	2.8	3.4	µA	18.9, 18.13, 18.17, 18.21, 18.25, 18.29
ERROR AMPLIFIER								
EAgm	Error amplifier transconductance	–10µA < ICOMP < 10µA, V(COMP) = 1V		1100	1750	2700	µA/V	19.9, 19.13, 19.39
EAISRC	Error amplifier source current	V(COMP) = 1V, 100mV input overdrive		95		210	µA	19.10, 19.14, 19.40

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Table 3-1. TPS7H5031-QMLP Data Sheet Electrical Parameters (continued)

PARAMETER		TEST CONDITIONS		MIN	TYP	MAX	UNIT	Test #
EAISNK	Error amplifier sink current	V(COMP) = 1V, 100mV input overdrive		95		210	µA	19.11, 19.15, 19.41
EAOS	Error amplifier input offset voltage			–5		6	mV	19.21, 19.24, 19.27, 19.30, 19.46, 19.49
EAIB	Error amplifier input bias current					25	nA	19.12, 19.16, 19.17, 19.18, 19.42, 19.43
OSCILLATOR								
SYNCIL	SYNC in low-level	VIN ≥ 8V				0.8	V	
SYNCIH	SYNC in high-level	VIN ≥ 8V		3.5			V	
DSYNC	SYNC in duty cycle	Duty cycle of external clock, 100kHz ≤ f < 200kHz		49%		51%		
DTINT	External clock to internal clock detection time	RT populated			2	5	(1/fsw) s	20.84, 20.86, 20.88, 20.90, 20.92, 20.94, 20.120, 20.122, 20.124
DTEXT	Internal clock to external clock detection time	RT populated			2	5	(1/fsw) s	20.72, 20.74, 20.76, 20.78, 20.80, 20.82, 20.114, 20.116, 20.118
fSW	RT programmed switching frequency	RT = 1.18MΩ		80	95	110	kHz	20.27, 20.31, 20.47, 20.49, 20.97, 20.107
		RT = 560kΩ		175	195	220	kHz	20.35, 20.37, 20.51, 20.53, 20.101, 20.109
		RT = 210kΩ		450	500	550	kHz	20.39, 20.43, 20.55, 20.57, 20.103, 20.111
VOLTAGE REFERENCE								
VREF	Internal voltage reference	Measured at COMP, COMP = VSENSE	TA = 25°C	0.597	0.6	0.603	V	19.19, 19.22, 19.25, 19.28, 19.31, 19.33, 19.35, 19.37, 19.44, 19.47, 19.50, 19.52
REFCAP	REFCAP voltage	CREFCAP = 470nF		1.208	1.223	1.235	V	21.5, 21.7, 21.9, 21.11, 21.13, 21.15, 21.17, 21.19, 21.23, 21.25, 21.27, 21.29
CURRENT SENSE								
CCSR	COMP to CS_ILIM ratio	RSC = open		1.94	2	2.06		28.3, 28.4, 28.15
VCS_ILIM	Current limit (overcurrent) threshold			0.96	1	1.04	V	28.7, 28.8, 28.9, 28.10, 28.17, 28.18

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Table 3-1. TPS7H5031-QMLP Data Sheet Electrical Parameters (continued)

PARAMETER		TEST CONDITIONS		MIN	TYP	MAX	UNIT	Test #
	CS_ILIM to OUT delay	CS_ILIM = 1V to 90% of OUT falling			65	115	ns	28.11, 28.12, 28.13, 28.14, 28.19, 28.20
GATE DRIVER								
VOL	Low-level voltage	IOL = 50mA			0.08	0.15	V	24.5, 24.7, 24.15
PVIN - VOH	High-level voltage	IOH = 50mA			0.13	0.25	V	24.6, 24.8, 24.16
tR_OUT	OUT rise time	CLOAD = 1000pF, 10% to 90%	VIN = PVIN = 8V		9.5	18	ns	24.17
tR_OUT	OUT rise time	CLOAD = 1000pF, 10% to 90%	VIN = PVIN = 12V		9.5	18	ns	24.9
			VIN = PVIN = 14V		11.5	20		24.11
tF_OUT	OUT fall time	CLOAD = 1000pF, 90% to 10%	VIN = PVIN = 8V		9.5	18	ns	24.18
tF_OUT	OUT fall time	CLOAD = 1000pF, 90% to 10%	VIN = PVIN = 12V		9.5	18	ns	24.1
			VIN = PVIN = 14V		11	18		24.12
ROH	Pull-up resistance	100mA from OUT			2.6	4.7	Ω	23.19, 23.21, 23.23
ROL	Pull-down resistance	100mA into OUT			1.6	2.8	Ω	23.20, 23.22, 23.24
VUCLAMP	Unpowered OUT clamp voltage	Switching disabled, 1mA pull-up applied to OUT	PVIN = 0V		0.7	1	V	24.13
			0V < PVIN < 5V		1.8	2.5		24.14
PWM AND DUTY CYCLE								
ton_min	Minimum on-time				135	165	ns	26.3, 26.4, 26.7
toff_min	Minimum off-time pulse extender				55	70	ns	26.5, 26.8
DMAX	Maximum duty cycle			42%	46%	50%		27.19, 27.20, 27.21, 27.22, 27.23, 27.24, 27.25, 27.26, 27.27, 27.28, 27.29, 27.30, 27.45, 27.46, 27.47, 27.48, 27.49, 27.50

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4 Applicable and Reference Documents

4.1 Applicable Documents

- Texas Instruments, *TPS7H502x-SP/SEP and TPS7H503x-SP/SEP Radiation-Hardened Current Mode PWM Controllers with Integrated Gate Drivers*, datasheet
- Texas Instruments, *TPS7H5030-SP Evaluation Module*, EVM user's guide.

4.2 Reference Documents

Texas Instruments' total ionizing dose radiation (total dose) test procedure follows the standards put forth in MIL-STD-883 TM 1019. The document can be found at the DLA website.

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A Appendix: HDR TID Report

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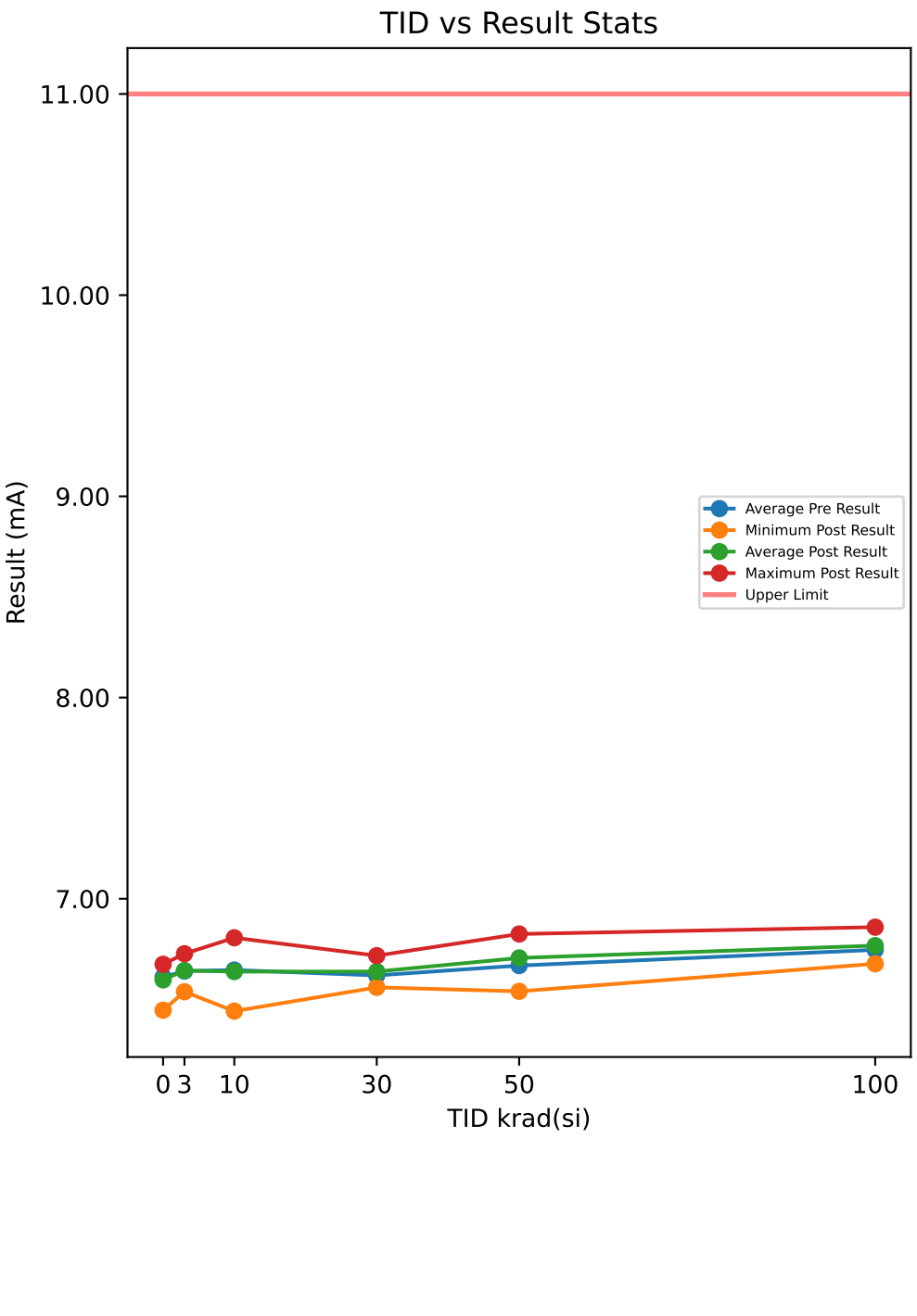
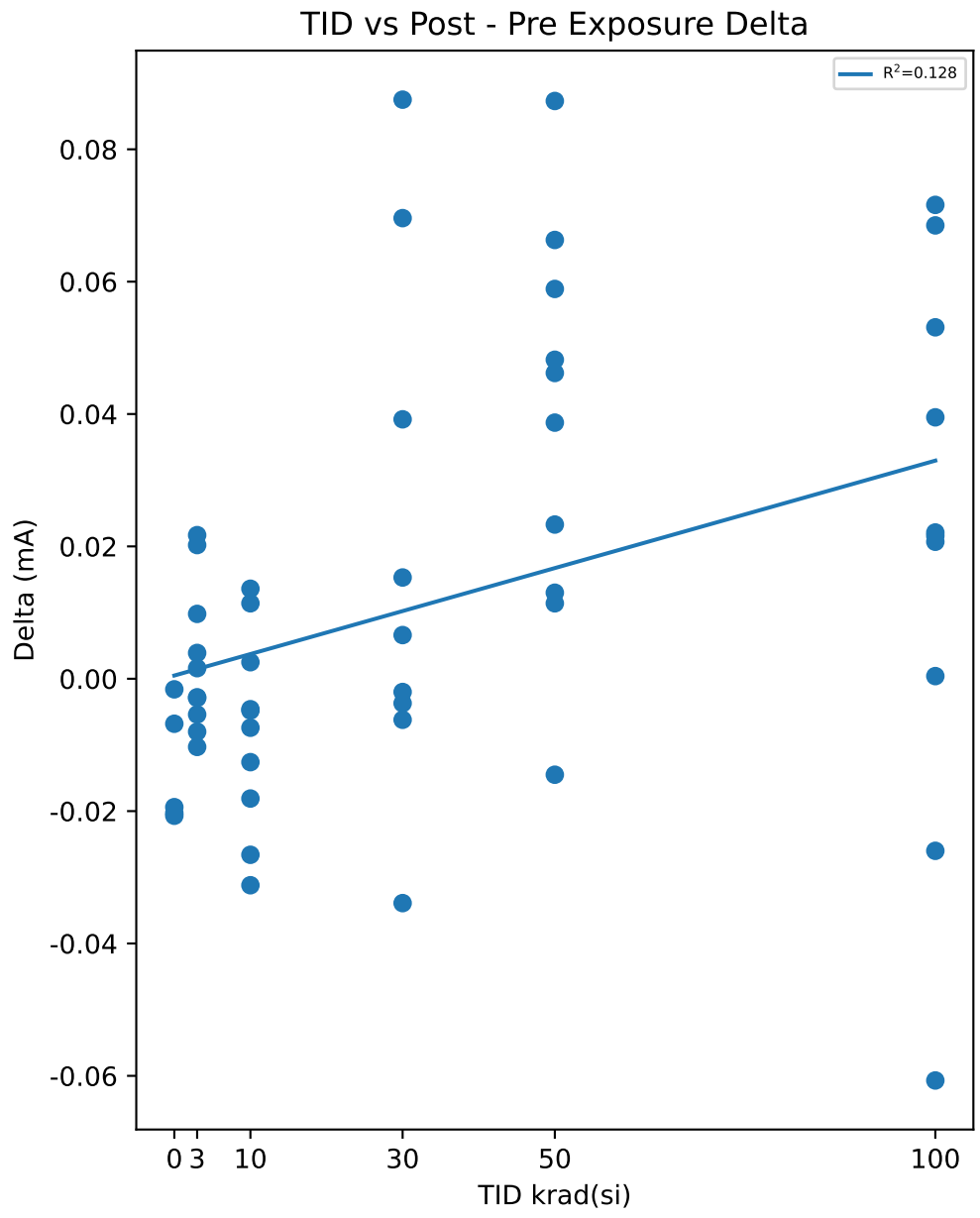
Device Test: 14.16 IDD|SUPPLY CURRENT/IN/8/8/0/0/5/100kHz//@IDD_ACT_100K_NOLOAD





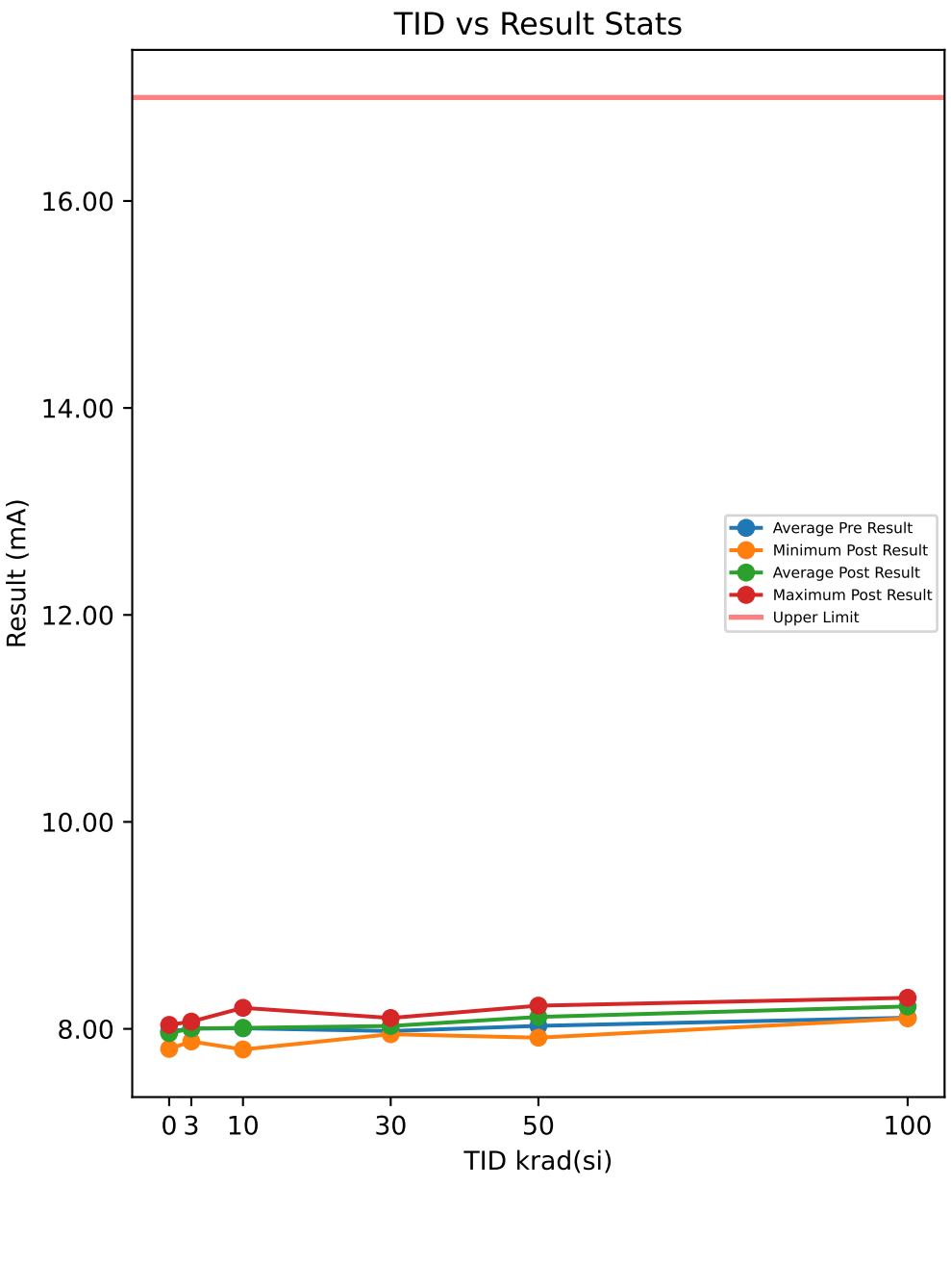
Test Results (Upper Limit = 11.0 (mA))

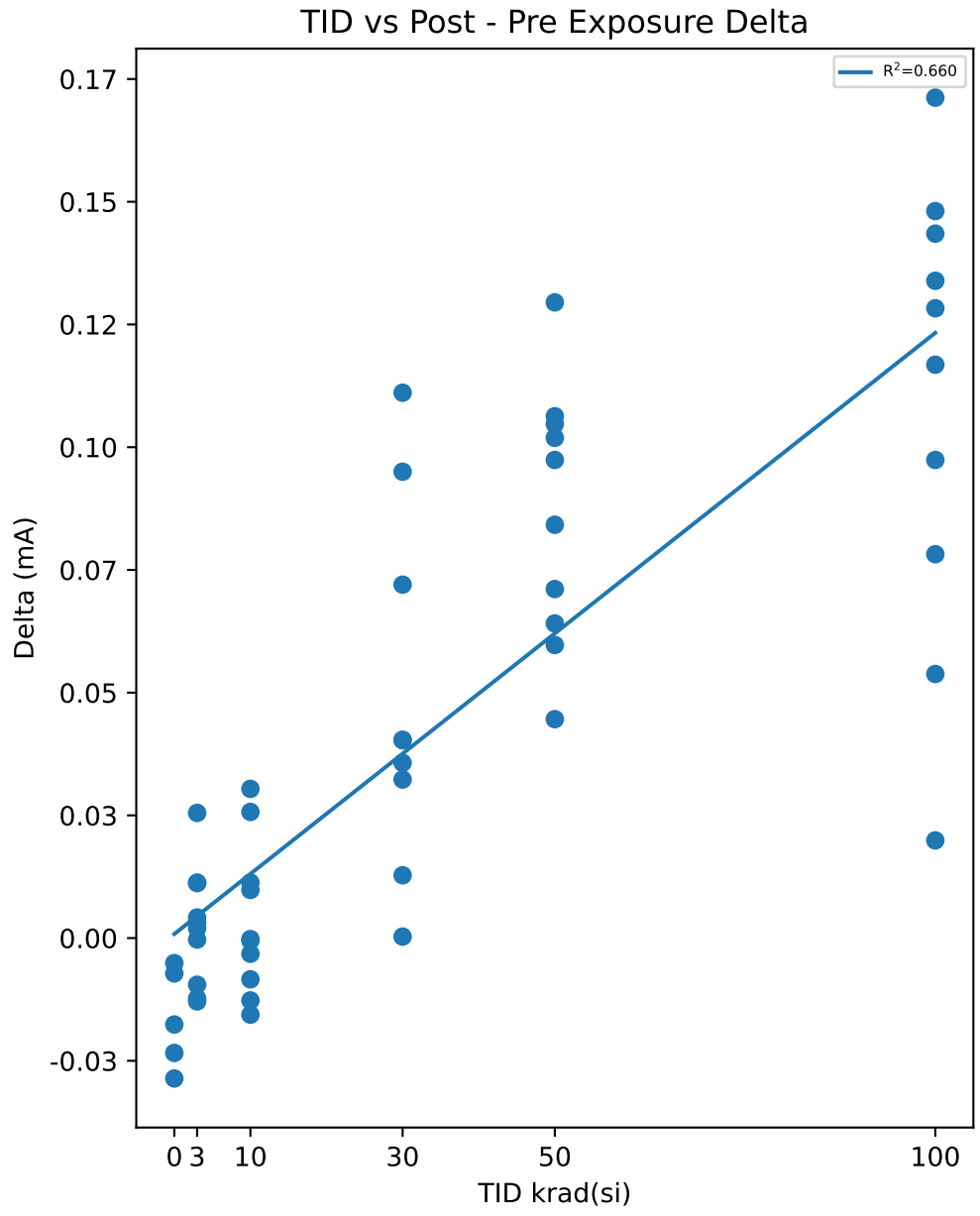
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	6.6535	6.7017	0.0482
411	100	Unbiased	6.6775	6.717	0.0395
444	30	Unbiased	6.6114	6.6077	-0.0037
454	10	Unbiased	6.7046	6.6734	-0.0312
491	3	Unbiased	6.6801	6.6747	-0.0054
500	100	Unbiased	6.6882	6.7598	0.0716
534	100	Biased	6.7577	6.7793	0.0216
558	0	Correlation	6.6938	6.6744	-0.0194
563	100	Biased	6.8583	6.8587	0.0004
570	3	Unbiased	6.5958	6.6056	0.0098
614	10	Unbiased	6.8242	6.8061	-0.0181
675	3	Biased	6.7024	6.6921	-0.0103
713	100	Unbiased	6.6934	6.7465	0.0531
744	50	Biased	6.766	6.8249	0.0589
799	50	Biased	6.5643	6.6516	0.0873
842	30	Unbiased	6.6683	6.6749	0.0066
889	3	Unbiased	6.6698	6.6669	-0.0029
901	3	Biased	6.6326	6.6342	0.0016
930	50	Unbiased	6.7068	6.7198	0.013
968	100	Unbiased	6.7815	6.8022	0.0207
976	100	Unbiased	6.7437	6.7658	0.0221
981	3	Biased	6.6384	6.6423	0.0039
1003	10	Biased	6.5771	6.5645	-0.0126
1039	3	Biased	6.6508	6.6428	-0.008
1053	100	Biased	6.8378	6.8118	-0.026
1056	0	Correlation	6.6174	6.6106	-0.0068
1072	10	Biased	6.5747	6.5481	-0.0266
1095	50	Unbiased	6.726	6.7115	-0.0145
1099	0	Correlation	6.4668	6.4461	-0.0207
1113	3	Biased	6.5176	6.5378	0.0202
1142	10	Unbiased	6.6787	6.6923	0.0136
1154	10	Biased	6.4489	6.4415	-0.0074
1215	50	Unbiased	6.6326	6.6713	0.0387
1222	100	Biased	6.8132	6.7525	-0.0607
1229	50	Unbiased	6.7603	6.8065	0.0462
1255	3	Unbiased	6.705	6.7267	0.0217
1331	30	Unbiased	6.6339	6.6319	-0.002
1359	30	Biased	6.6072	6.6768	0.0696
1375	30	Unbiased	6.5269	6.5661	0.0392
1398	30	Biased	6.5935	6.5596	-0.0339
1411	50	Biased	6.7217	6.788	0.0663
1465	10	Unbiased	6.6829	6.6783	-0.0046
1474	50	Biased	6.5166	6.5399	0.0233
1504	50	Biased	6.6311	6.6425	0.0114
1540	100	Biased	6.6083	6.6768	0.0685
1554	3	Unbiased	6.6116	6.6088	-0.0028
1662	30	Biased	6.7234	6.7172	-0.0062
1679	10	Biased	6.6675	6.6789	0.0114
1697	10	Biased	6.5617	6.5569	-0.0048
1703	30	Biased	6.5446	6.6321	0.0875
1704	10	Unbiased	6.7365	6.739	0.0025
1736	30	Biased	6.6625	6.6778	0.0153
1737	0	Correlation	6.5955	6.5939	-0.0016
1748	0	Correlation	6.68	6.6597	-0.0203

Test Statistics (mA)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	6.4668	6.6107	6.6938	0.090404	6.4461	6.5969	6.6744	0.090674	-0.0207	-0.01376	-0.0016	0.008931
3	6.5176	6.6404	6.705	0.056302	6.5378	6.6432	6.7267	0.052393	-0.0103	0.00278	0.0217	0.01121
10	6.4489	6.6457	6.8242	0.10649	6.4415	6.6379	6.8061	0.10782	-0.0312	-0.00778	0.0136	0.014841
30	6.5269	6.6191	6.7234	0.061552	6.5596	6.6382	6.7172	0.053653	-0.0339	0.019156	0.0875	0.039079
50	6.5166	6.6679	6.766	0.083251	6.5399	6.7058	6.8249	0.086272	-0.0145	0.03788	0.0873	0.030083
100	6.6083	6.746	6.8583	0.079385	6.6768	6.767	6.8587	0.050691	-0.0607	0.02108	0.0716	0.041498

Device Test: 14.18 IDD|SUPPLY CURRENT/IN/8/8/0/0/5/500kHz//@IDD_ACT_500K_NOLOAD





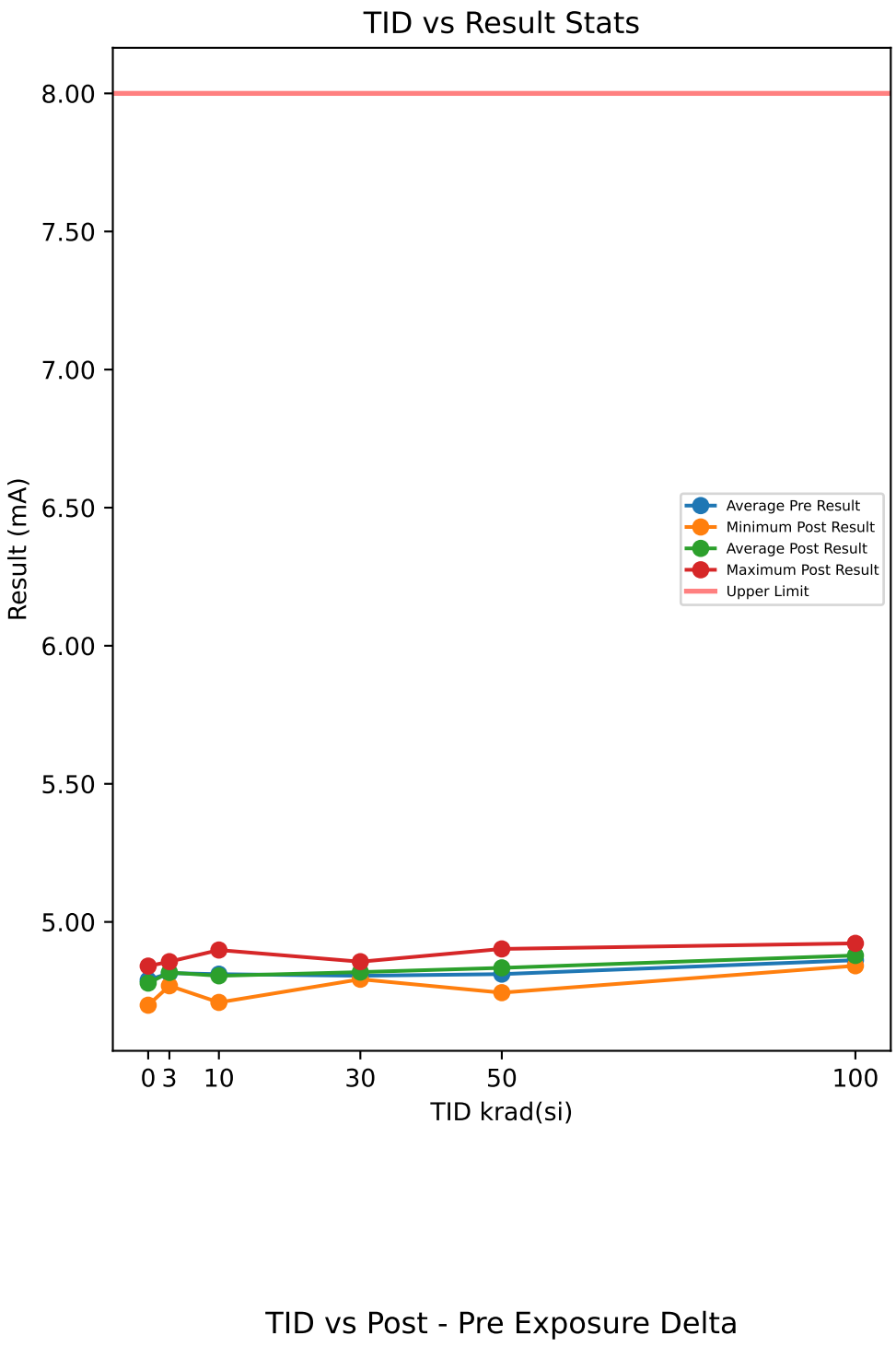
Test Results (Upper Limit = 17.0 (mA))

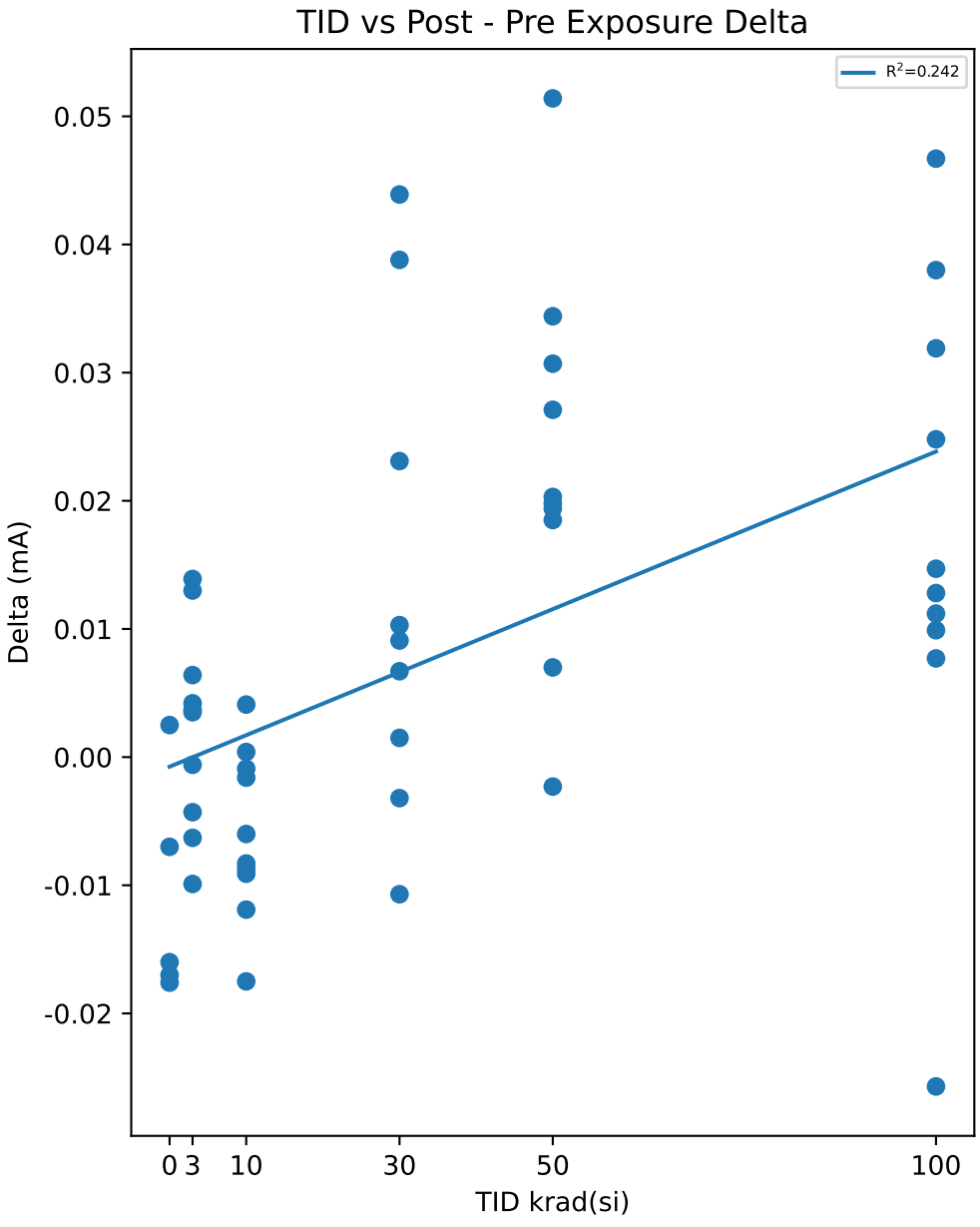
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	8.0172	8.1146	0.0974
411	100	Unbiased	8.0352	8.1691	0.1339
444	30	Unbiased	7.9786	8.0143	0.0357
454	10	Unbiased	8.0794	8.0667	-0.0127
491	3	Unbiased	8.0433	8.0465	0.0032
500	100	Unbiased	8.0639	8.2351	0.1712
534	100	Biased	8.1193	8.2167	0.0974
558	0	Correlation	8.0559	8.0383	-0.0176
563	100	Biased	8.2217	8.2999	0.0782
570	3	Unbiased	7.9785	7.9898	0.0113
614	10	Unbiased	8.2115	8.2031	-0.0084
675	3	Biased	8.0823	8.07	-0.0123
713	100	Unbiased	8.0777	8.2212	0.1435
744	50	Biased	8.1165	8.2228	0.1063
799	50	Biased	7.9219	8.0514	0.1295
842	30	Unbiased	8.0081	8.0484	0.0403
889	3	Unbiased	8.0203	8.0108	-0.0095
901	3	Biased	7.996	8.0002	0.0042
930	50	Unbiased	8.0963	8.1674	0.0711
968	100	Unbiased	8.1399	8.2682	0.1283
976	100	Unbiased	8.088	8.2048	0.1168
981	3	Biased	8.001	8.003	0.002
1003	10	Biased	7.9257	7.9252	-0.0005
1039	3	Biased	8.0405	8.0276	-0.0129
1053	100	Biased	8.192	8.2458	0.0538
1056	0	Correlation	7.9855	7.9804	-0.0051
1072	10	Biased	7.9479	7.9323	-0.0156
1095	50	Unbiased	8.1027	8.1473	0.0446
1099	0	Correlation	7.83	7.8066	-0.0234
1113	3	Biased	7.8669	7.8781	0.0112
1142	10	Unbiased	8.0339	8.0643	0.0304
1154	10	Biased	7.8039	7.8007	-0.0032
1215	50	Unbiased	7.9873	8.0715	0.0842
1222	100	Biased	8.1806	8.2005	0.0199
1229	50	Unbiased	8.1222	8.2241	0.1019
1255	3	Unbiased	8.0272	8.0527	0.0255
1331	30	Unbiased	8.0002	8.0325	0.0323
1359	30	Biased	7.9528	8.0478	0.095
1375	30	Unbiased	7.8926	7.9646	0.072
1398	30	Biased	7.948	7.9483	0.0003
1411	50	Biased	8.0755	8.1802	0.1047
1465	10	Unbiased	8.0474	8.0572	0.0098
1474	50	Biased	7.8548	7.9145	0.0597
1504	50	Biased	7.9941	8.0582	0.0641
1540	100	Biased	7.9538	8.1019	0.1481
1554	3	Unbiased	7.9624	7.9621	-0.0003
1662	30	Biased	8.0921	8.1049	0.0128
1679	10	Biased	8.0136	8.0393	0.0257
1697	10	Biased	7.91	7.9098	-0.0002
1703	30	Biased	7.9213	8.0324	0.1111
1704	10	Unbiased	8.0819	8.0932	0.0113
1736	30	Biased	8.0163	8.0567	0.0404
1737	0	Correlation	7.9611	7.9539	-0.0072
1748	0	Correlation	8.0421	8.0135	-0.0286

Test Statistics (mA)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	7.83	7.9749	8.0559	0.089966	7.8066	7.9585	8.0383	0.090785	-0.0286	-0.01638	-0.0051	0.010144
3	7.8669	8.0018	8.0823	0.058704	7.8781	8.0041	8.07	0.054732	-0.0129	0.00224	0.0255	0.011987
10	7.8039	8.0055	8.2115	0.11344	7.8007	8.0092	8.2031	0.11572	-0.0156	0.00366	0.0304	0.015493
30	7.8926	7.9789	8.0921	0.059077	7.9483	8.0278	8.1049	0.047623	0.0003	0.048878	0.1111	0.036723
50	7.8548	8.0289	8.1222	0.090294	7.9145	8.1152	8.2241	0.094826	0.0446	0.08635	0.1295	0.026132
100	7.9538	8.1072	8.2217	0.080784	8.1019	8.2163	8.2999	0.054393	0.0199	0.10911	0.1712	0.046798

Device Test: 14.19 IDD_DIS|STANDBY CURRENT/IN/8/8/0/0/5/500kHz//@IDD_DIS





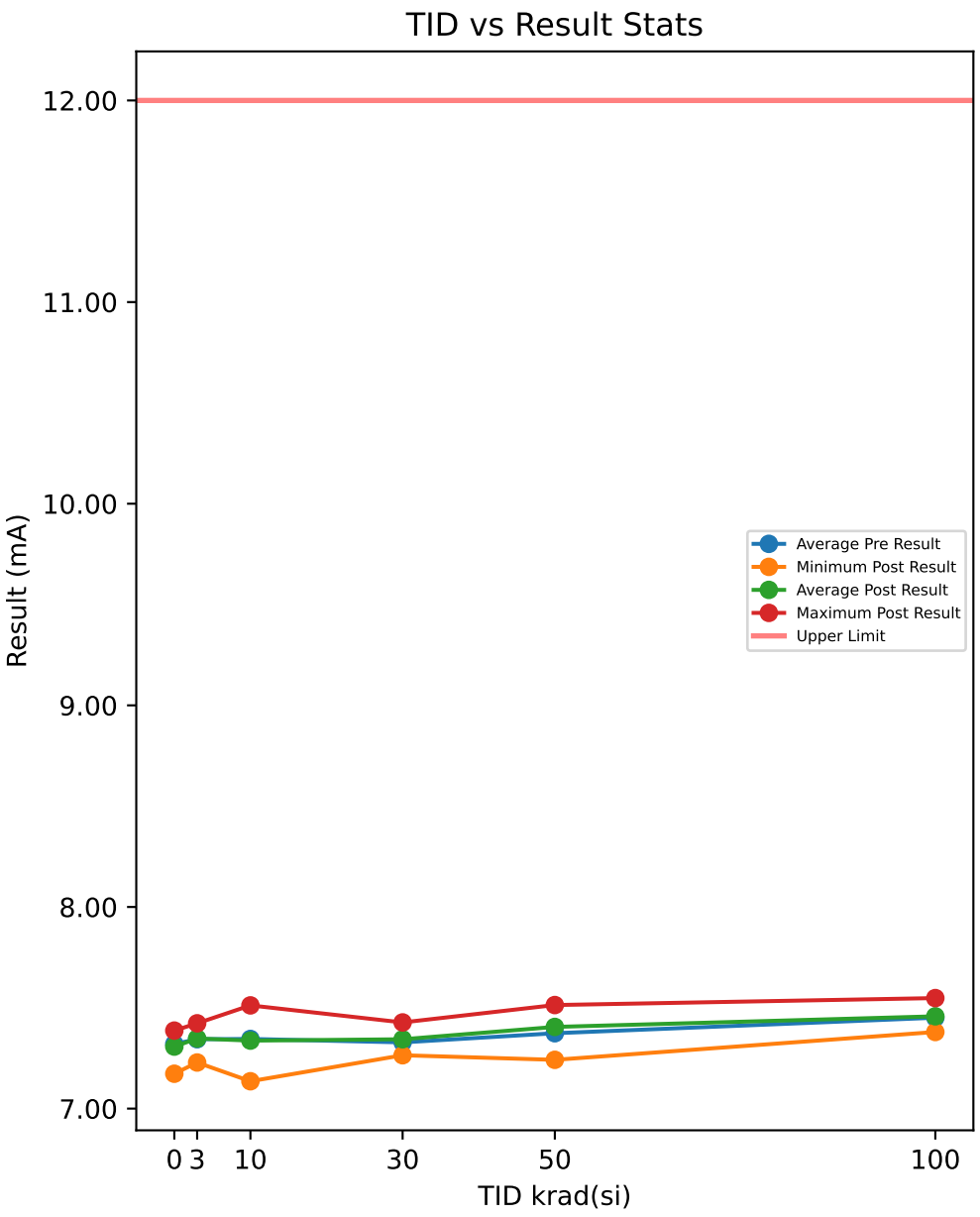
Test Results (Upper Limit = 8.0 (mA))

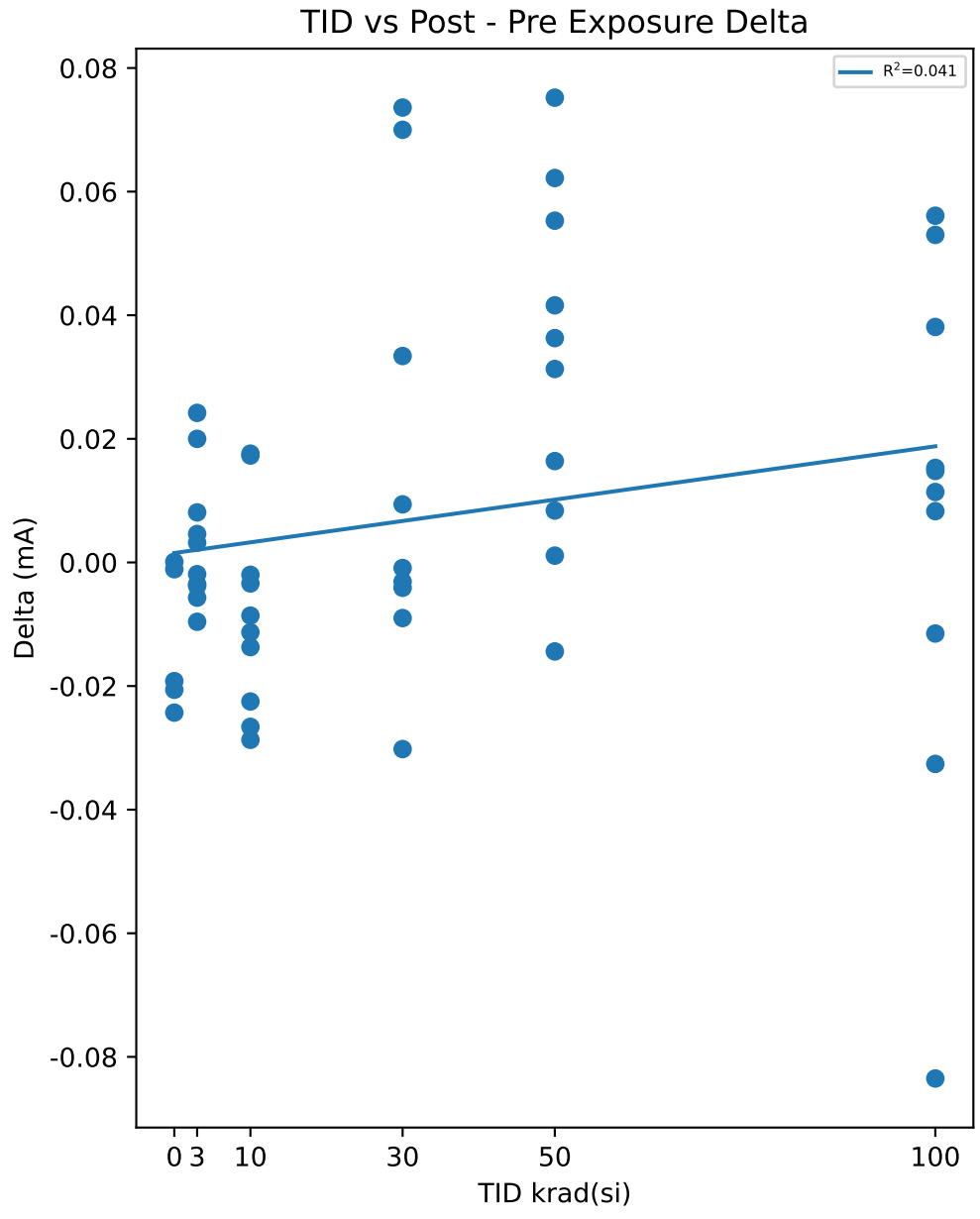
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	4.7964	4.8158	0.0194
411	100	Unbiased	4.8449	4.8829	0.038
444	30	Unbiased	4.8013	4.8028	0.0015
454	10	Unbiased	4.8512	4.8337	-0.0175
491	3	Unbiased	4.8542	4.8499	-0.0043
500	100	Unbiased	4.8365	4.8684	0.0319
534	100	Biased	4.854	4.8687	0.0147
558	0	Correlation	4.857	4.84	-0.017
563	100	Biased	4.912	4.9197	0.0077
570	3	Unbiased	4.7942	4.8006	0.0064
614	10	Unbiased	4.9069	4.8982	-0.0087
675	3	Biased	4.8427	4.8328	-0.0099
713	100	Unbiased	4.8164	4.8412	0.0248
744	50	Biased	4.8751	4.9022	0.0271
799	50	Biased	4.7449	4.7963	0.0514
842	30	Unbiased	4.8119	4.821	0.0091
889	3	Unbiased	4.8199	4.8236	0.0037
901	3	Biased	4.84	4.8435	0.0035
930	50	Unbiased	4.8133	4.8203	0.007
968	100	Unbiased	4.8717	4.8845	0.0128
976	100	Unbiased	4.8534	4.8633	0.0099
981	3	Biased	4.8322	4.8364	0.0042
1003	10	Biased	4.7574	4.7455	-0.0119
1039	3	Biased	4.7694	4.7688	-0.0006
1053	100	Biased	4.9112	4.9224	0.0112
1056	0	Correlation	4.7767	4.7697	-0.007
1072	10	Biased	4.7649	4.7566	-0.0083
1095	50	Unbiased	4.8346	4.8323	-0.0023
1099	0	Correlation	4.7144	4.6984	-0.016
1113	3	Biased	4.764	4.7779	0.0139
1142	10	Unbiased	4.84	4.8404	0.0004
1154	10	Biased	4.7094	4.7085	-0.0009
1215	50	Unbiased	4.8149	4.8352	0.0203
1222	100	Biased	4.8758	4.8501	-0.0257
1229	50	Unbiased	4.8409	4.8753	0.0344
1255	3	Unbiased	4.8431	4.8561	0.013
1331	30	Unbiased	4.7936	4.8039	0.0103
1359	30	Biased	4.8172	4.856	0.0388
1375	30	Unbiased	4.7693	4.7924	0.0231
1398	30	Biased	4.833	4.8223	-0.0107
1411	50	Biased	4.849	4.8797	0.0307
1465	10	Unbiased	4.8366	4.8275	-0.0091
1474	50	Biased	4.724	4.7438	0.0198
1504	50	Biased	4.8169	4.8354	0.0185
1540	100	Biased	4.8373	4.884	0.0467
1554	3	Unbiased	4.7867	4.7804	-0.0063
1662	30	Biased	4.82	4.8267	0.0067
1679	10	Biased	4.8271	4.8312	0.0041
1697	10	Biased	4.7756	4.774	-0.0016
1703	30	Biased	4.7492	4.7931	0.0439
1704	10	Unbiased	4.839	4.833	-0.006
1736	30	Biased	4.8499	4.8467	-0.0032
1737	0	Correlation	4.7808	4.7833	0.0025
1748	0	Correlation	4.8187	4.8011	-0.0176

Test Statistics (mA)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	4.7144	4.7895	4.857	0.053124	4.6984	4.7785	4.84	0.051984	-0.0176	-0.01102	0.0025	0.0087007
3	4.764	4.8146	4.8542	0.033252	4.7688	4.817	4.8561	0.032393	-0.0099	0.00236	0.0139	0.0078003
10	4.7094	4.8108	4.9069	0.057664	4.7085	4.8049	4.8982	0.056662	-0.0175	-0.00595	0.0041	0.006477
30	4.7492	4.805	4.8499	0.031131	4.7924	4.8183	4.856	0.02257	-0.0107	0.013278	0.0439	0.018508
50	4.724	4.811	4.8751	0.046201	4.7438	4.8336	4.9022	0.045371	-0.0023	0.02263	0.0514	0.01475
100	4.8164	4.8613	4.912	0.031571	4.8412	4.8785	4.9224	0.026536	-0.0257	0.0172	0.0467	0.020062

Device Test: 14.20 IDD|SUPPLY CURRENT/IN/8/8/0/1000/5/100kHz//@IDD_ACT_100K_LOAD





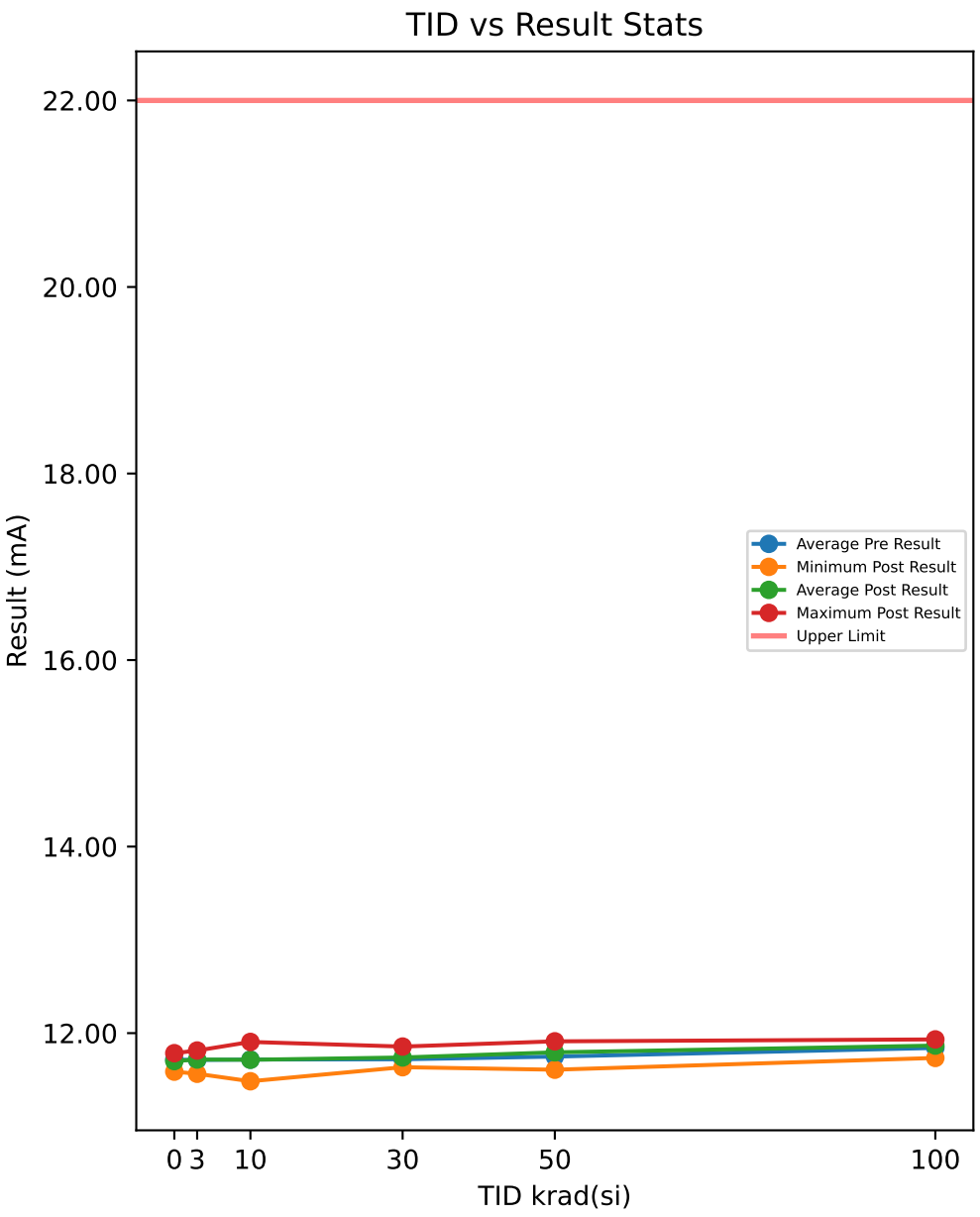
Test Results (Upper Limit = 12.0 (mA))

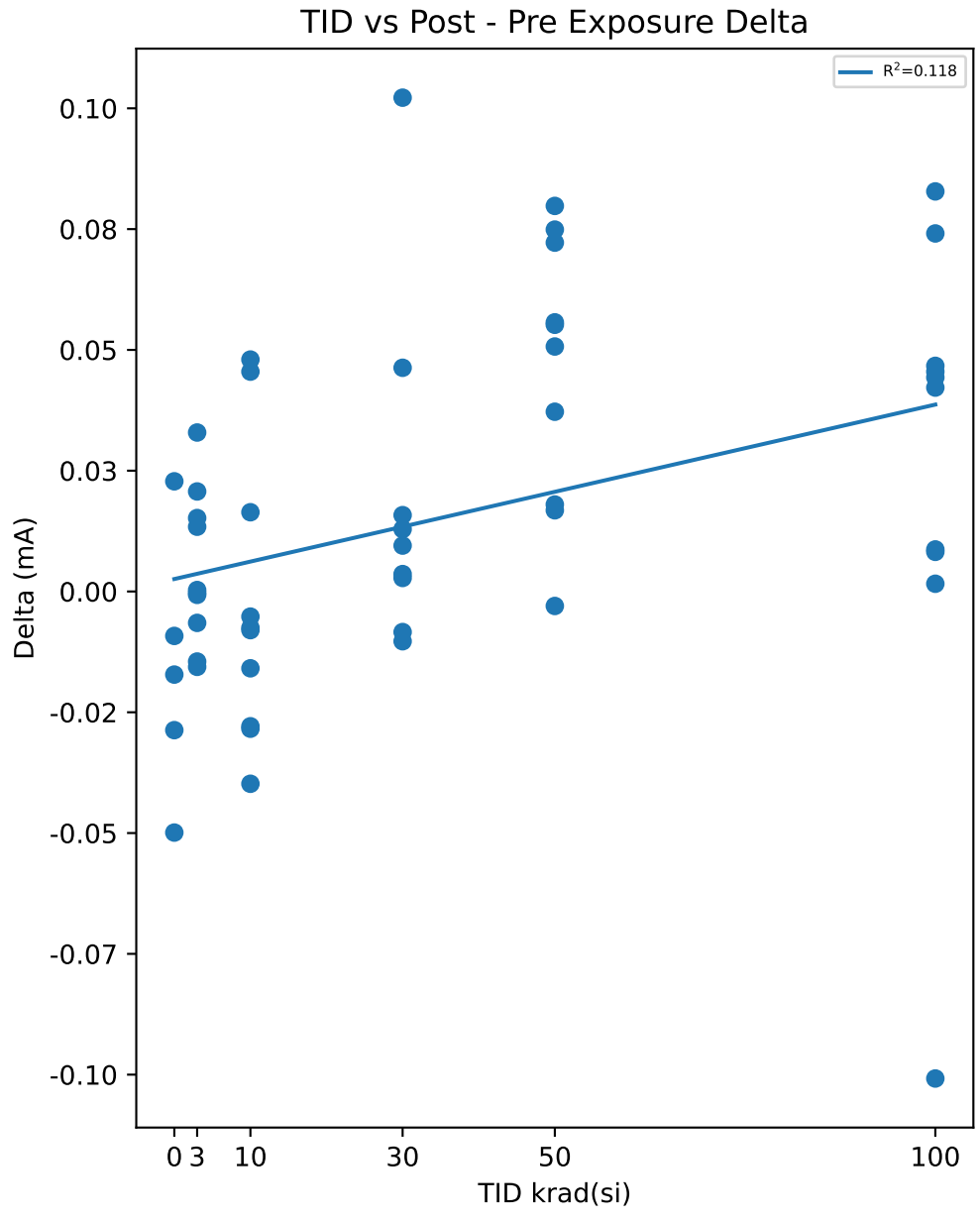
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	7.3587	7.4003	0.0416
411	100	Unbiased	7.3651	7.3799	0.0148
444	30	Unbiased	7.3253	7.3212	-0.0041
454	10	Unbiased	7.3956	7.3669	-0.0287
491	3	Unbiased	7.3945	7.3888	-0.0057
500	100	Unbiased	7.4096	7.4657	0.0561
534	100	Biased	7.4594	7.4677	0.0083
558	0	Correlation	7.4061	7.3869	-0.0192
563	100	Biased	7.5596	7.5481	-0.0115
570	3	Unbiased	7.2891	7.2972	0.0081
614	10	Unbiased	7.5344	7.5119	-0.0225
675	3	Biased	7.4207	7.4111	-0.0096
713	100	Unbiased	7.4061	7.4442	0.0381
744	50	Biased	7.4583	7.5136	0.0553
799	50	Biased	7.2562	7.3314	0.0752
842	30	Unbiased	7.3699	7.369	-0.0009
889	3	Unbiased	7.3851	7.3832	-0.0019
901	3	Biased	7.3352	7.3398	0.0046
930	50	Unbiased	7.4391	7.4402	0.0011
968	100	Unbiased	7.4756	7.487	0.0114
976	100	Unbiased	7.4393	7.4546	0.0153
981	3	Biased	7.3431	7.3463	0.0032
1003	10	Biased	7.2893	7.2756	-0.0137
1039	3	Biased	7.3585	7.355	-0.0035
1053	100	Biased	7.5419	7.5093	-0.0326
1056	0	Correlation	7.3188	7.3189	0.0001
1072	10	Biased	7.2768	7.2502	-0.0266
1095	50	Unbiased	7.4424	7.428	-0.0144
1099	0	Correlation	7.1972	7.1729	-0.0243
1113	3	Biased	7.2086	7.2286	0.02
1142	10	Unbiased	7.3929	7.4105	0.0176
1154	10	Biased	7.139	7.1356	-0.0034
1215	50	Unbiased	7.3407	7.372	0.0313
1222	100	Biased	7.5199	7.4364	-0.0835
1229	50	Unbiased	7.4609	7.4972	0.0363
1255	3	Unbiased	7.3988	7.423	0.0242
1331	30	Unbiased	7.3341	7.3251	-0.009
1359	30	Biased	7.3221	7.3957	0.0736
1375	30	Unbiased	7.2312	7.2646	0.0334
1398	30	Biased	7.306	7.2758	-0.0302
1411	50	Biased	7.4267	7.4889	0.0622
1465	10	Unbiased	7.3753	7.364	-0.0113
1474	50	Biased	7.2255	7.2419	0.0164
1504	50	Biased	7.3292	7.3376	0.0084
1540	100	Biased	7.3315	7.3845	0.053
1554	3	Unbiased	7.3082	7.3044	-0.0038
1662	30	Biased	7.4305	7.4274	-0.0031
1679	10	Biased	7.367	7.3843	0.0173
1697	10	Biased	7.2592	7.2506	-0.0086
1703	30	Biased	7.2583	7.3283	0.07
1704	10	Unbiased	7.4244	7.4224	-0.002
1736	30	Biased	7.3783	7.3877	0.0094
1737	0	Correlation	7.2938	7.2927	-0.0011
1748	0	Correlation	7.3868	7.3662	-0.0206

Test Statistics (mA)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	7.1972	7.3205	7.4061	0.083129	7.1729	7.3075	7.3869	0.083988	-0.0243	-0.01302	0.0001	0.011588
3	7.2086	7.3442	7.4207	0.063283	7.2286	7.3477	7.423	0.059035	-0.0096	0.00356	0.0242	0.01111
10	7.139	7.3454	7.5344	0.10852	7.1356	7.3372	7.5119	0.10877	-0.0287	-0.00819	0.0176	0.016264
30	7.2312	7.3284	7.4305	0.060809	7.2646	7.3439	7.4274	0.055048	-0.0302	0.015456	0.0736	0.03604
50	7.2255	7.3738	7.4609	0.085395	7.2419	7.4051	7.5136	0.086136	-0.0144	0.03134	0.0752	0.02855
100	7.3315	7.4508	7.5596	0.075281	7.3799	7.4577	7.5481	0.051547	-0.0835	0.00694	0.0561	0.041827

Device Test: 14.21 IDD|SUPPLY CURRENT/IN/8/8/0/1000/5/500kHz//@IDD_ACT_500K_LOAD





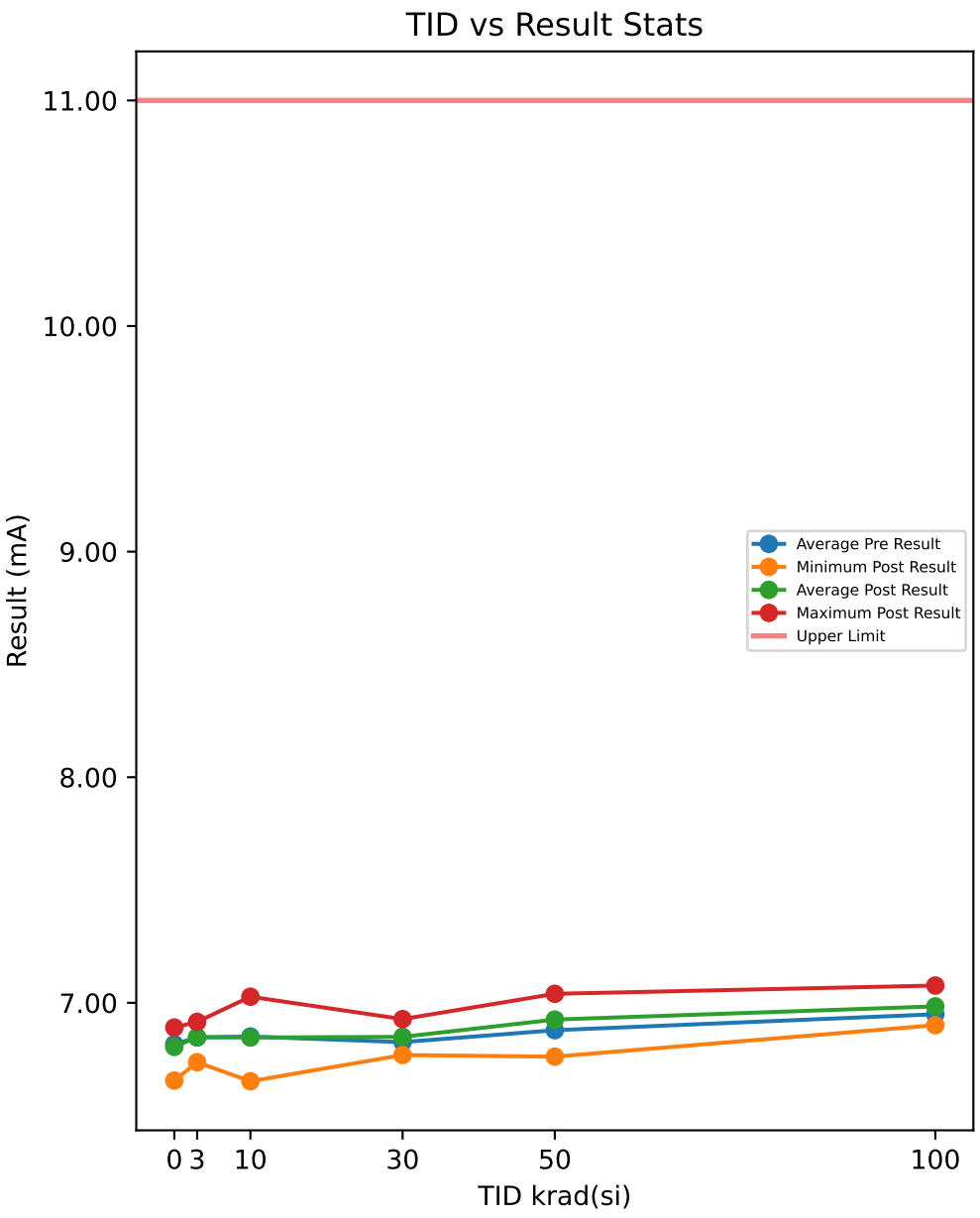
Test Results (Upper Limit = 22.0 (mA))

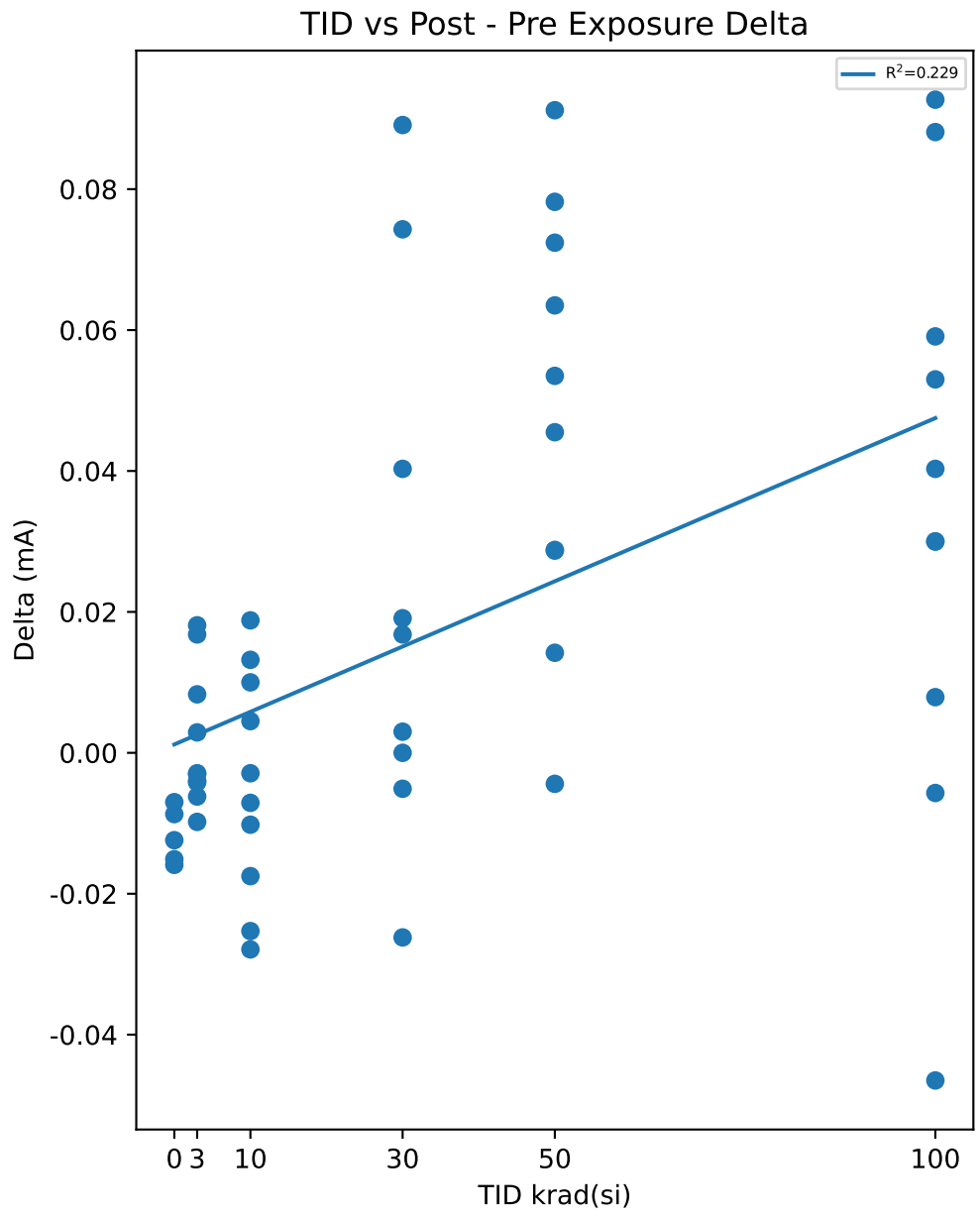
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	11.721	11.776	0.0557
411	100	Unbiased	11.725	11.734	0.0087
444	30	Unbiased	11.716	11.732	0.0158
454	10	Unbiased	11.739	11.734	-0.0052
491	3	Unbiased	11.788	11.788	-0.0003
500	100	Unbiased	11.833	11.916	0.0828
534	100	Biased	11.829	11.876	0.0467
558	0	Correlation	11.802	11.785	-0.0172
563	100	Biased	11.915	11.924	0.0082
570	3	Unbiased	11.667	11.66	-0.0065
614	10	Unbiased	11.945	11.906	-0.0398
675	3	Biased	11.828	11.813	-0.0145
713	100	Unbiased	11.838	11.882	0.0443
744	50	Biased	11.801	11.876	0.0749
799	50	Biased	11.595	11.668	0.0722
842	30	Unbiased	11.752	11.744	-0.0084
889	3	Unbiased	11.771	11.772	0.0003
901	3	Biased	11.688	11.703	0.0152
930	50	Unbiased	11.915	11.912	-0.003
968	100	Unbiased	11.841	11.886	0.0455
976	100	Unbiased	11.816	11.859	0.0422
981	3	Biased	11.719	11.718	-0.0007
1003	10	Biased	11.684	11.676	-0.008
1039	3	Biased	11.755	11.769	0.0134
1053	100	Biased	11.931	11.933	0.0016
1056	0	Correlation	11.694	11.716	0.0228
1072	10	Biased	11.691	11.663	-0.0284
1095	50	Unbiased	11.855	11.872	0.0168
1099	0	Correlation	11.637	11.587	-0.0499
1113	3	Biased	11.544	11.564	0.0207
1142	10	Unbiased	11.78	11.825	0.0455
1154	10	Biased	11.468	11.484	0.0164
1215	50	Unbiased	11.698	11.753	0.0552
1222	100	Biased	11.927	11.826	-0.1008
1229	50	Unbiased	11.826	11.864	0.0372
1255	3	Unbiased	11.705	11.738	0.0329
1331	30	Unbiased	11.697	11.686	-0.0103
1359	30	Biased	11.704	11.806	0.1022
1375	30	Unbiased	11.589	11.635	0.0463
1398	30	Biased	11.691	11.695	0.0036
1411	50	Biased	11.802	11.881	0.0798
1465	10	Unbiased	11.744	11.716	-0.0279
1474	50	Biased	11.59	11.608	0.018
1504	50	Biased	11.681	11.732	0.0507
1540	100	Biased	11.754	11.828	0.0741
1554	3	Unbiased	11.659	11.643	-0.0156
1662	30	Biased	11.843	11.856	0.0129
1679	10	Biased	11.73	11.778	0.048
1697	10	Biased	11.614	11.598	-0.0159
1703	30	Biased	11.689	11.698	0.0095
1704	10	Unbiased	11.774	11.766	-0.0075
1736	30	Biased	11.796	11.799	0.0028
1737	0	Correlation	11.681	11.672	-0.0092
1748	0	Correlation	11.769	11.74	-0.0287

Test Statistics (mA)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	11.637	11.716	11.802	0.067402	11.587	11.7	11.785	0.075205	-0.0499	-0.01644	0.0228	0.026752
3	11.544	11.712	11.828	0.080634	11.564	11.717	11.813	0.076416	-0.0156	0.00449	0.0329	0.015693
10	11.468	11.717	11.945	0.12261	11.484	11.714	11.906	0.11865	-0.0398	-0.00228	0.048	0.030112
30	11.589	11.72	11.843	0.072322	11.635	11.739	11.856	0.06987	-0.0103	0.019378	0.1022	0.035201
50	11.59	11.748	11.915	0.10914	11.608	11.794	11.912	0.1031	-0.003	0.04575	0.0798	0.027848
100	11.725	11.841	11.931	0.068996	11.734	11.866	11.933	0.059164	-0.1008	0.02533	0.0828	0.051888

Device Test: 14.3 IDD|SUPPLY CURRENT/IN/12/12/0/0/5/100kHz//@IDD_ACT_100K_NOLOAD





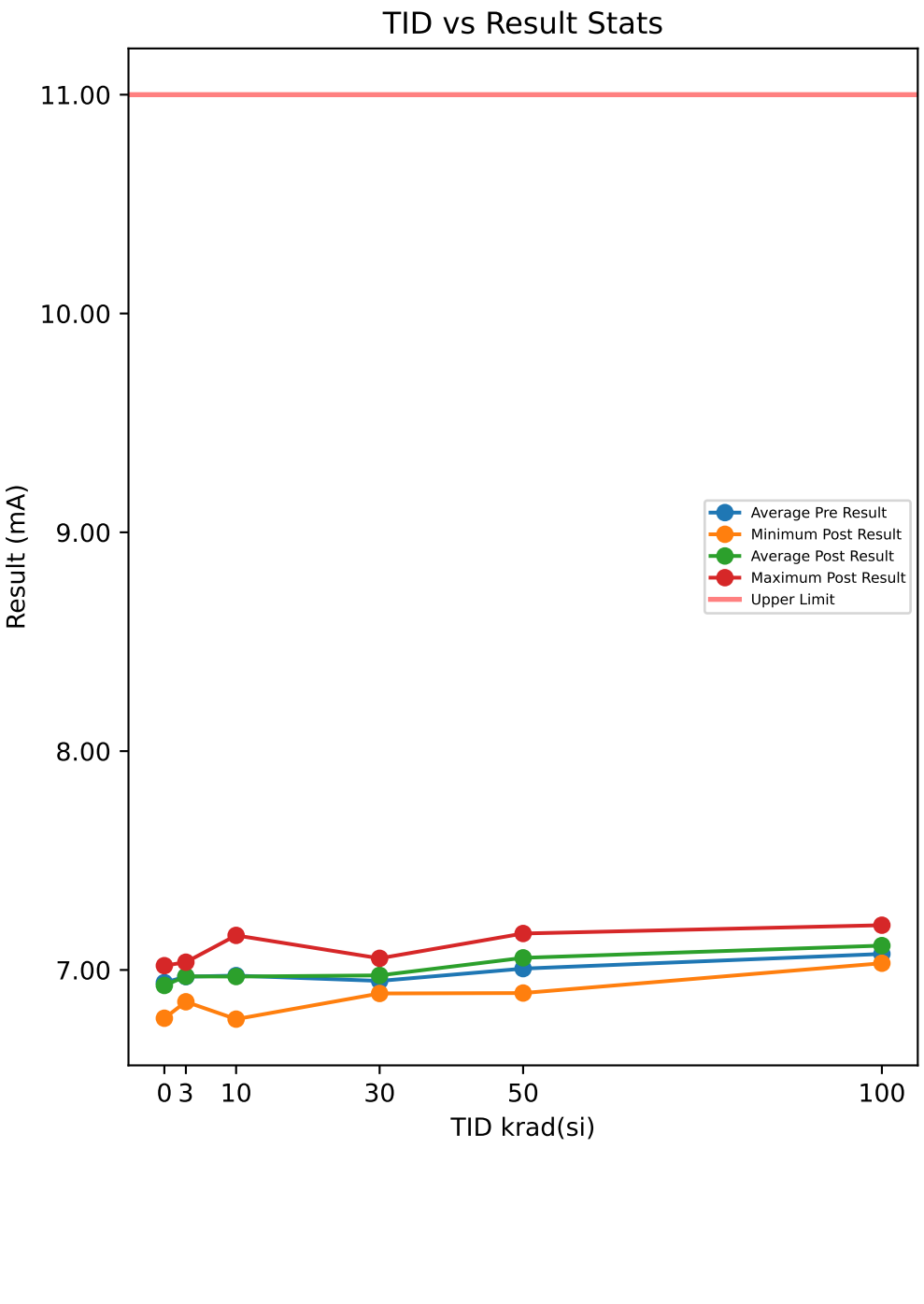
Test Results (Upper Limit = 11.0 (mA))

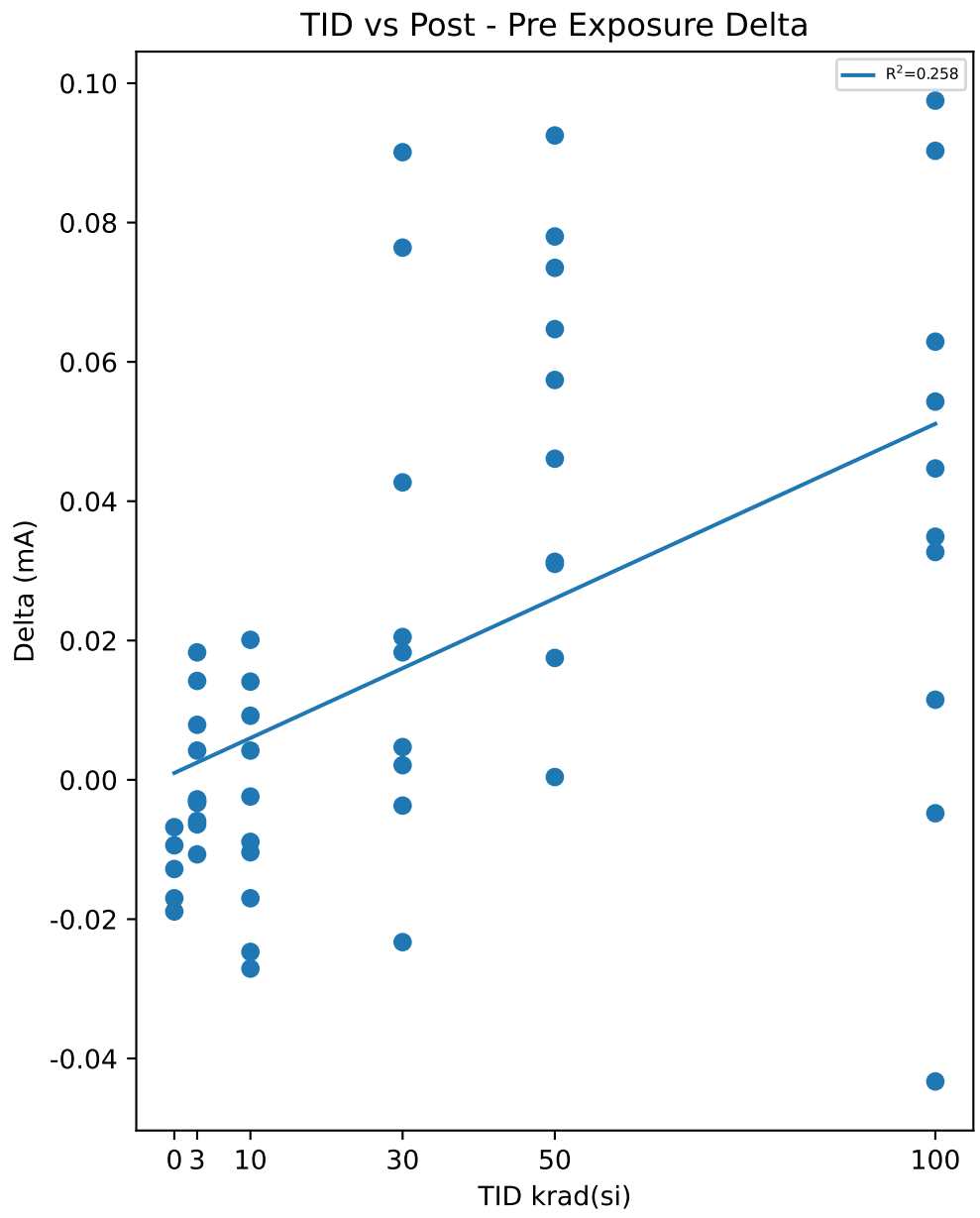
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	6.8608	6.9243	0.0635
411	100	Unbiased	6.8767	6.9297	0.053
444	30	Unbiased	6.8245	6.8245	0
454	10	Unbiased	6.9147	6.8868	-0.0279
491	3	Unbiased	6.877	6.8799	0.0029
500	100	Unbiased	6.8904	6.9831	0.0927
534	100	Biased	6.9631	6.9931	0.03
558	0	Correlation	6.9027	6.8903	-0.0124
563	100	Biased	7.0686	7.0765	0.0079
570	3	Unbiased	6.8039	6.8122	0.0083
614	10	Unbiased	7.0446	7.0271	-0.0175
675	3	Biased	6.9126	6.9084	-0.0042
713	100	Unbiased	6.9057	6.9648	0.0591
744	50	Biased	6.9675	7.0399	0.0724
799	50	Biased	6.7789	6.8701	0.0912
842	30	Unbiased	6.8628	6.8796	0.0168
889	3	Unbiased	6.8781	6.8719	-0.0062
901	3	Biased	6.844	6.8411	-0.0029
930	50	Unbiased	6.9173	6.9461	0.0288
968	100	Unbiased	6.9846	7.0249	0.0403
976	100	Unbiased	6.9444	6.9744	0.03
981	3	Biased	6.8487	6.8457	-0.003
1003	10	Biased	6.7719	6.769	-0.0029
1039	3	Biased	6.8665	6.8567	-0.0098
1053	100	Biased	7.0326	7.0269	-0.0057
1056	0	Correlation	6.8189	6.8119	-0.007
1072	10	Biased	6.7758	6.7505	-0.0253
1095	50	Unbiased	6.9399	6.9355	-0.0044
1099	0	Correlation	6.6703	6.6552	-0.0151
1113	3	Biased	6.7198	6.7366	0.0168
1142	10	Unbiased	6.8827	6.9015	0.0188
1154	10	Biased	6.6593	6.6522	-0.0071
1215	50	Unbiased	6.8402	6.8857	0.0455
1222	100	Biased	7.014	6.9675	-0.0465
1229	50	Unbiased	6.9726	7.0261	0.0535
1255	3	Unbiased	6.8974	6.9155	0.0181
1331	30	Unbiased	6.8452	6.8482	0.003
1359	30	Biased	6.8099	6.8842	0.0743
1375	30	Unbiased	6.7316	6.7719	0.0403
1398	30	Biased	6.7947	6.7685	-0.0262
1411	50	Biased	6.9221	7.0003	0.0782
1465	10	Unbiased	6.8854	6.8899	0.0045
1474	50	Biased	6.7326	6.7613	0.0287
1504	50	Biased	6.8528	6.867	0.0142
1540	100	Biased	6.8127	6.9008	0.0881
1554	3	Unbiased	6.816	6.812	-0.004
1662	30	Biased	6.9328	6.9277	-0.0051
1679	10	Biased	6.8702	6.8834	0.0132
1697	10	Biased	6.766	6.7558	-0.0102
1703	30	Biased	6.7599	6.849	0.0891
1704	10	Unbiased	6.9352	6.9452	0.01
1736	30	Biased	6.8699	6.889	0.0191
1737	0	Correlation	6.8025	6.7938	-0.0087
1748	0	Correlation	6.8881	6.8722	-0.0159

Test Statistics (mA)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	6.6703	6.8165	6.9027	0.092376	6.6552	6.8047	6.8903	0.092742	-0.0159	-0.01182	-0.007	0.0038958
3	6.7198	6.8464	6.9126	0.055875	6.7366	6.848	6.9155	0.052609	-0.0098	0.0016	0.0181	0.0097015
10	6.6593	6.8506	7.0446	0.10907	6.6522	6.8461	7.0271	0.11128	-0.0279	-0.00444	0.0188	0.016119
30	6.7316	6.8257	6.9328	0.060804	6.7685	6.8492	6.9277	0.053612	-0.0262	0.023478	0.0891	0.0379
50	6.7326	6.8785	6.9726	0.08	6.7613	6.9256	7.0399	0.084568	-0.0044	0.04716	0.0912	0.030318
100	6.8127	6.9493	7.0686	0.078964	6.9008	6.9842	7.0765	0.050284	-0.0465	0.03489	0.0927	0.04238

Device Test: 14.4 IDD|SUPPLY CURRENT/IN/14/14/0/0/5/100kHz//@IDD_ACT_100K_NOLOAD





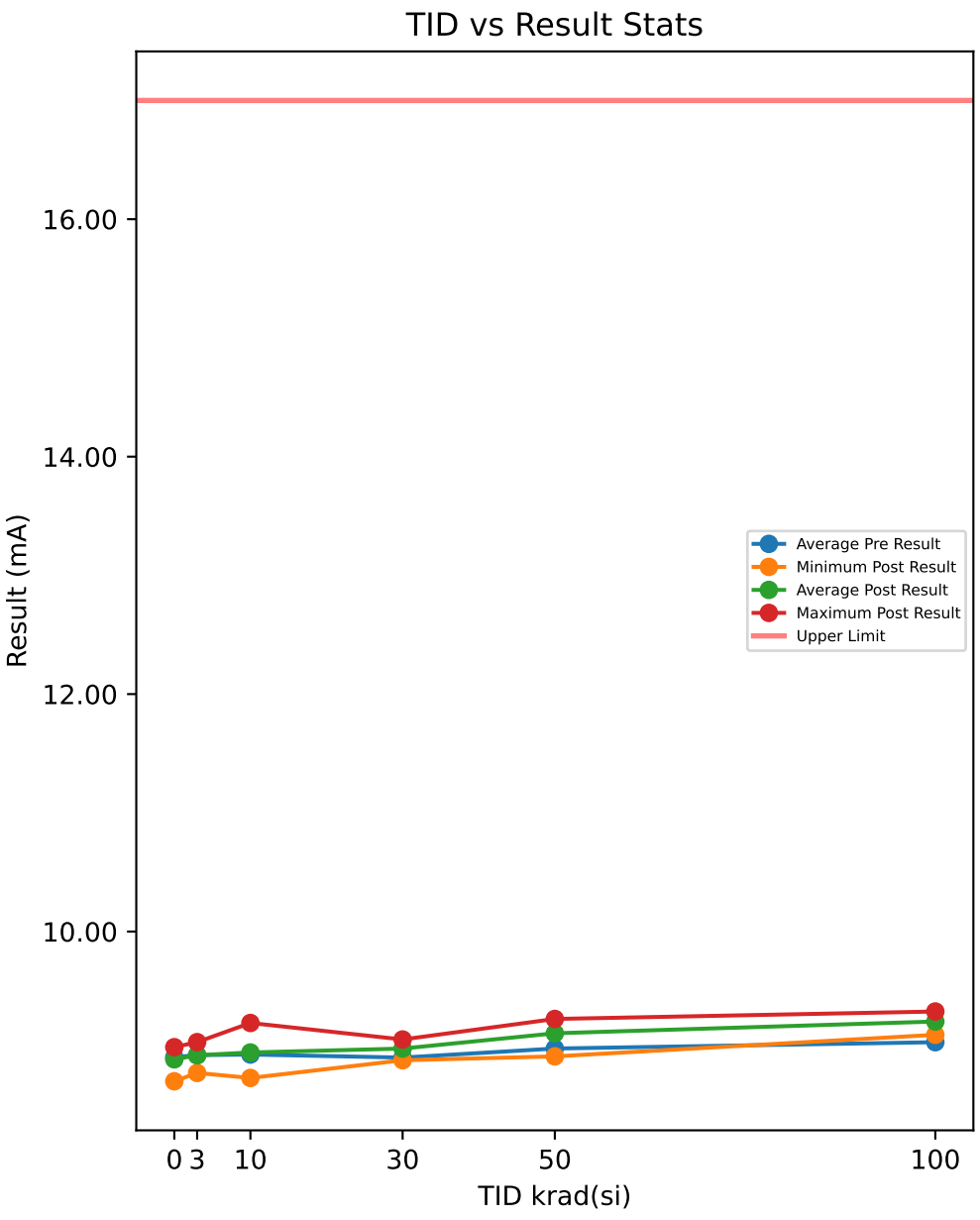
Test Results (Upper Limit = 11.0 (mA))

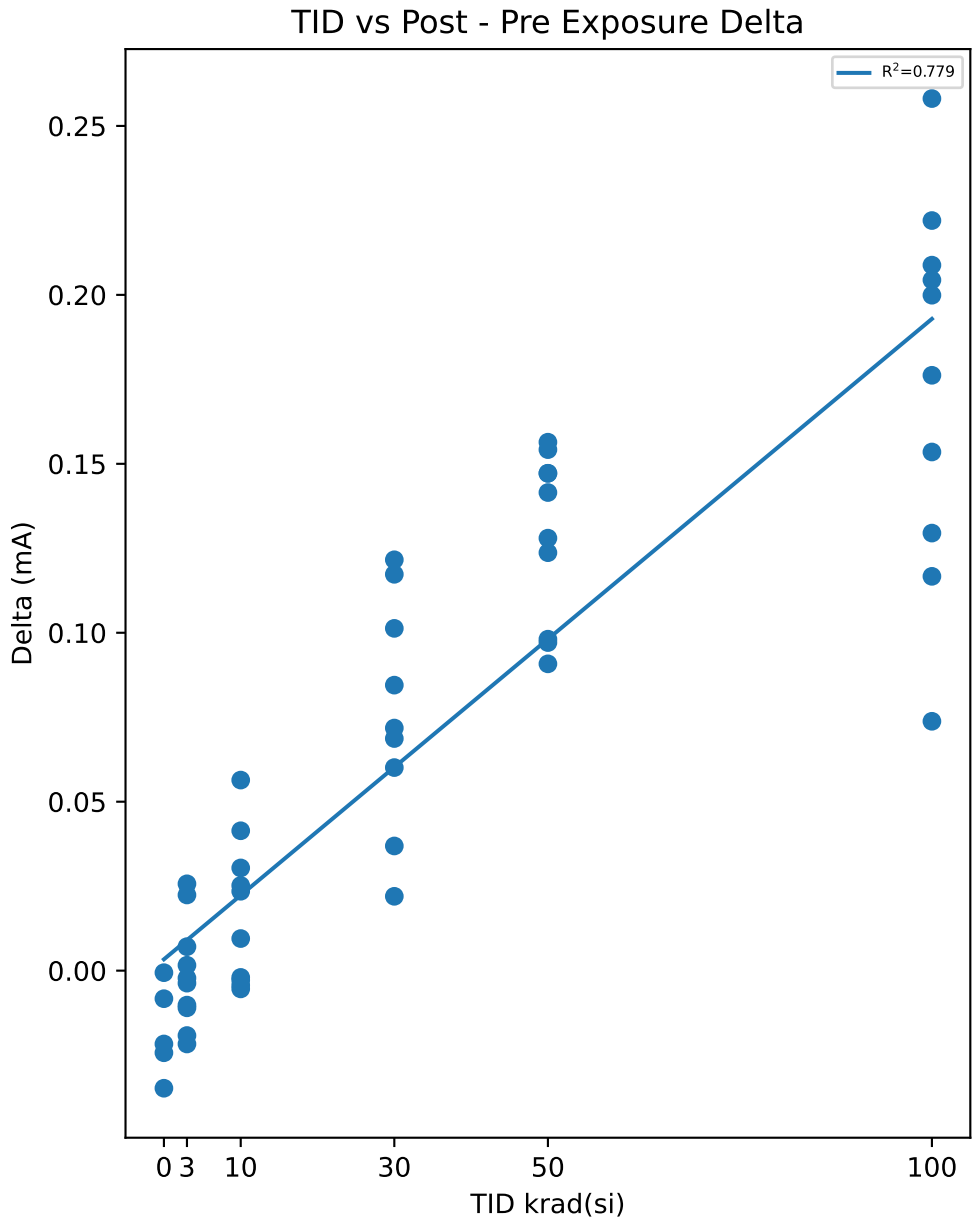
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	6.9886	7.0533	0.0647
411	100	Unbiased	7.0004	7.0547	0.0543
444	30	Unbiased	6.9515	6.9536	0.0021
454	10	Unbiased	7.0386	7.0115	-0.0271
491	3	Unbiased	6.9987	7.0029	0.0042
500	100	Unbiased	7.0158	7.1133	0.0975
534	100	Biased	7.0843	7.117	0.0327
558	0	Correlation	7.0324	7.0196	-0.0128
563	100	Biased	7.193	7.2045	0.0115
570	3	Unbiased	6.9264	6.9343	0.0079
614	10	Unbiased	7.175	7.158	-0.017
675	3	Biased	7.0414	7.0355	-0.0059
713	100	Unbiased	7.0322	7.0951	0.0629
744	50	Biased	7.0931	7.1666	0.0735
799	50	Biased	6.9061	6.9986	0.0925
842	30	Unbiased	6.9862	7.0045	0.0183
889	3	Unbiased	7.0016	6.9952	-0.0064
901	3	Biased	6.9695	6.9667	-0.0028
930	50	Unbiased	7.0486	7.0799	0.0313
968	100	Unbiased	7.1103	7.155	0.0447
976	100	Unbiased	7.0633	7.0982	0.0349
981	3	Biased	6.973	6.9699	-0.0031
1003	10	Biased	6.8934	6.891	-0.0024
1039	3	Biased	6.9944	6.9837	-0.0107
1053	100	Biased	7.1552	7.1504	-0.0048
1056	0	Correlation	6.9378	6.931	-0.0068
1072	10	Biased	6.8954	6.8707	-0.0247
1095	50	Unbiased	7.0666	7.067	0.0004
1099	0	Correlation	6.7964	6.7794	-0.017
1113	3	Biased	6.8404	6.8546	0.0142
1142	10	Unbiased	7.0059	7.026	0.0201
1154	10	Biased	6.7842	6.7753	-0.0089
1215	50	Unbiased	6.9643	7.0104	0.0461
1222	100	Biased	7.137	7.0937	-0.0433
1229	50	Unbiased	7.0992	7.1566	0.0574
1255	3	Unbiased	7.0112	7.0295	0.0183
1331	30	Unbiased	6.9712	6.9759	0.0047
1359	30	Biased	6.9324	7.0088	0.0764
1375	30	Unbiased	6.8533	6.896	0.0427
1398	30	Biased	6.9159	6.8926	-0.0233
1411	50	Biased	7.0467	7.1247	0.078
1465	10	Unbiased	7.0103	7.0145	0.0042
1474	50	Biased	6.8635	6.8945	0.031
1504	50	Biased	6.9848	7.0023	0.0175
1540	100	Biased	6.9405	7.0308	0.0903
1554	3	Unbiased	6.9381	6.9348	-0.0033
1662	30	Biased	7.0569	7.0532	-0.0037
1679	10	Biased	6.9925	7.0066	0.0141
1697	10	Biased	6.8888	6.8784	-0.0104
1703	30	Biased	6.8869	6.977	0.0901
1704	10	Unbiased	7.0576	7.0668	0.0092
1736	30	Biased	6.9951	7.0156	0.0205
1737	0	Correlation	6.9264	6.917	-0.0094
1748	0	Correlation	7.0178	6.9989	-0.0189

Test Statistics (mA)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	6.7964	6.9422	7.0324	0.094045	6.7794	6.9292	7.0196	0.094369	-0.0189	-0.01298	-0.0068	0.0050559
3	6.8404	6.9695	7.0414	0.0567	6.8546	6.9707	7.0355	0.053304	-0.0107	0.00124	0.0183	0.0095441
10	6.7842	6.9742	7.175	0.11065	6.7753	6.9699	7.158	0.11318	-0.0271	-0.00429	0.0201	0.016151
30	6.8533	6.9499	7.0569	0.061267	6.8926	6.9752	7.0532	0.053932	-0.0233	0.025311	0.0901	0.037667
50	6.8635	7.0061	7.0992	0.079017	6.8945	7.0554	7.1666	0.083072	0.0004	0.04924	0.0925	0.029155
100	6.9405	7.0732	7.193	0.077909	7.0308	7.1113	7.2045	0.050099	-0.0433	0.03807	0.0975	0.042671

Device Test: 14.5 IDD|SUPPLY CURRENT/IN/12/12/0/0/5/500kHz//@IDD_ACT_500K_NOLOAD





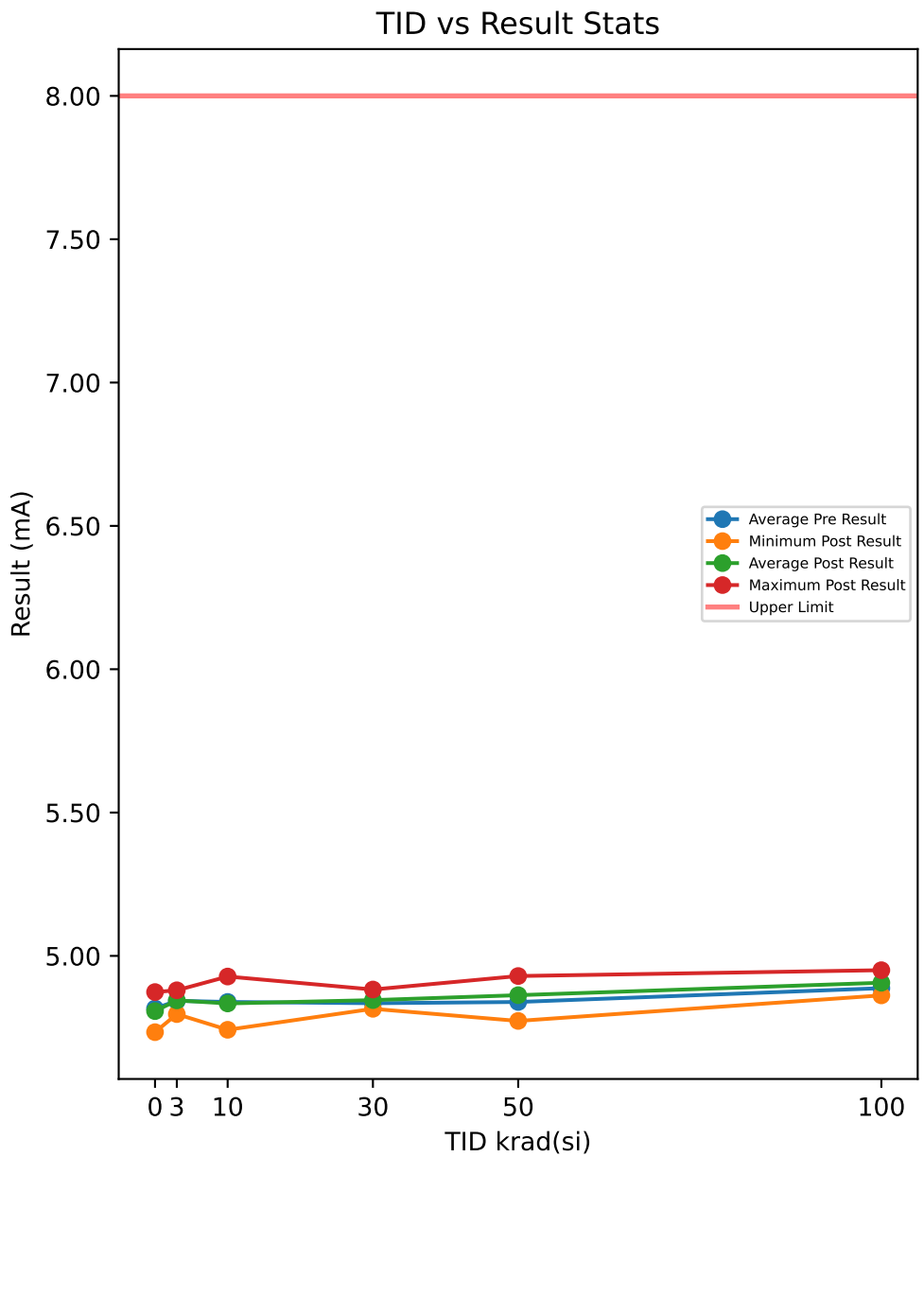
Test Results (Upper Limit = 17.0 (mA))

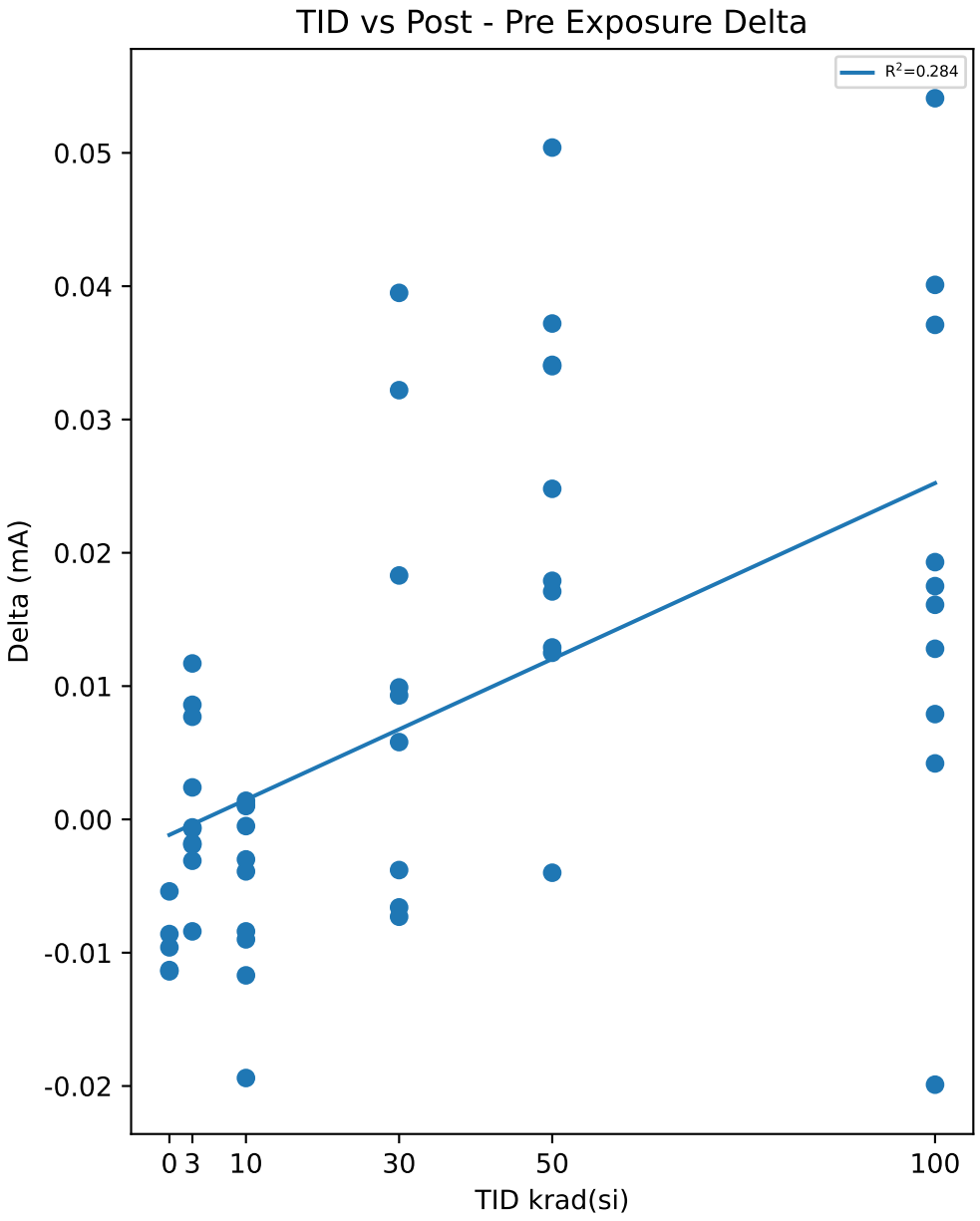
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	8.9859	9.1331	0.1472
411	100	Unbiased	8.9858	9.1902	0.2044
444	30	Unbiased	8.9484	9.0202	0.0718
454	10	Unbiased	9.0588	9.0683	0.0095
491	3	Unbiased	8.9771	8.9995	0.0224
500	100	Unbiased	9.0336	9.2917	0.2581
534	100	Biased	9.0586	9.2121	0.1535
558	0	Correlation	9.0343	9.026	-0.0083
563	100	Biased	9.1926	9.3221	0.1295
570	3	Unbiased	8.9559	8.963	0.0071
614	10	Unbiased	9.2319	9.2299	-0.002
675	3	Biased	9.0795	9.0685	-0.011
713	100	Unbiased	9.0831	9.283	0.1999
744	50	Biased	9.0968	9.251	0.1542
799	50	Biased	8.9226	9.079	0.1564
842	30	Unbiased	8.9502	9.0347	0.0845
889	3	Unbiased	8.9679	8.9462	-0.0217
901	3	Biased	8.9629	8.9645	0.0016
930	50	Unbiased	9.0856	9.2136	0.128
968	100	Unbiased	9.1177	9.3265	0.2088
976	100	Unbiased	9.0126	9.1888	0.1762
981	3	Biased	8.9582	8.948	-0.0102
1003	10	Biased	8.8524	8.8776	0.0252
1039	3	Biased	9.0444	9.0252	-0.0192
1053	100	Biased	9.1469	9.2636	0.1167
1056	0	Correlation	8.9257	8.9251	-0.0006
1072	10	Biased	8.8854	8.88	-0.0054
1095	50	Unbiased	9.0867	9.1838	0.0971
1099	0	Correlation	8.7605	8.7388	-0.0217
1113	3	Biased	8.8127	8.809	-0.0037
1142	10	Unbiased	8.9756	9.032	0.0564
1154	10	Biased	8.7697	8.7669	-0.0028
1215	50	Unbiased	8.9343	9.058	0.1237
1222	100	Biased	9.14	9.2138	0.0738
1229	50	Unbiased	9.1166	9.2638	0.1472
1255	3	Unbiased	8.9092	8.9349	0.0257
1331	30	Unbiased	8.9749	9.0436	0.0687
1359	30	Biased	8.8939	9.0112	0.1173
1375	30	Unbiased	8.8414	8.9427	0.1013
1398	30	Biased	8.8791	8.916	0.0369
1411	50	Biased	9.0326	9.1741	0.1415
1465	10	Unbiased	9.023	9.0534	0.0304
1474	50	Biased	8.8576	8.9484	0.0908
1504	50	Biased	9.0274	9.1255	0.0981
1540	100	Biased	8.9084	9.1304	0.222
1554	3	Unbiased	8.9217	8.9195	-0.0022
1662	30	Biased	9.0689	9.0909	0.022
1679	10	Biased	8.9523	8.9937	0.0414
1697	10	Biased	8.8619	8.8576	-0.0043
1703	30	Biased	8.9078	9.0294	0.1216
1704	10	Unbiased	9.0314	9.0549	0.0235
1736	30	Biased	8.9812	9.0413	0.0601
1737	0	Correlation	8.9494	8.9251	-0.0243
1748	0	Correlation	9.0381	9.0033	-0.0348

Test Statistics (mA)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	8.7605	8.9416	9.0381	0.11293	8.7388	8.9237	9.026	0.11291	-0.0348	-0.01794	-0.0006	0.013532
3	8.8127	8.9589	9.0795	0.072664	8.809	8.9578	9.0685	0.069098	-0.0217	-0.00112	0.0257	0.015937
10	8.7697	8.9642	9.2319	0.1316	8.7669	8.9814	9.2299	0.1354	-0.0054	0.01719	0.0564	0.021605
30	8.8414	8.9384	9.0689	0.067338	8.916	9.0144	9.0909	0.053541	0.022	0.076022	0.1216	0.034033
50	8.8576	9.0146	9.1166	0.087097	8.9484	9.143	9.2638	0.096302	0.0908	0.12842	0.1564	0.025082
100	8.9084	9.0679	9.1926	0.085766	9.1304	9.2422	9.3265	0.064834	0.0738	0.17429	0.2581	0.055688

Device Test: 14.6 IDD_DIS|STANDBY CURRENT/IN/12/12/0/0/5/500kHz//@IDD_DIS





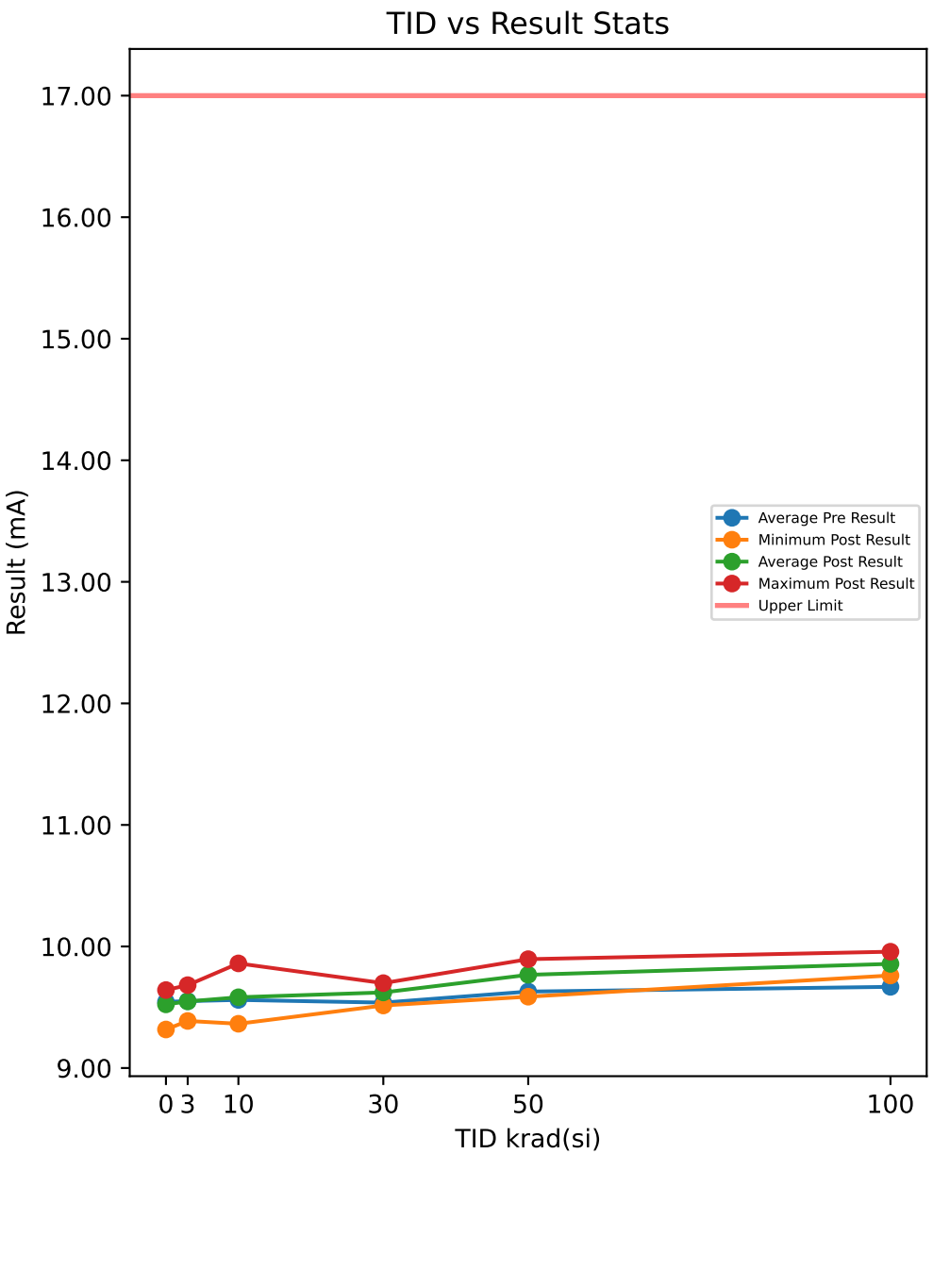
Test Results (Upper Limit = 8.0 (mA))

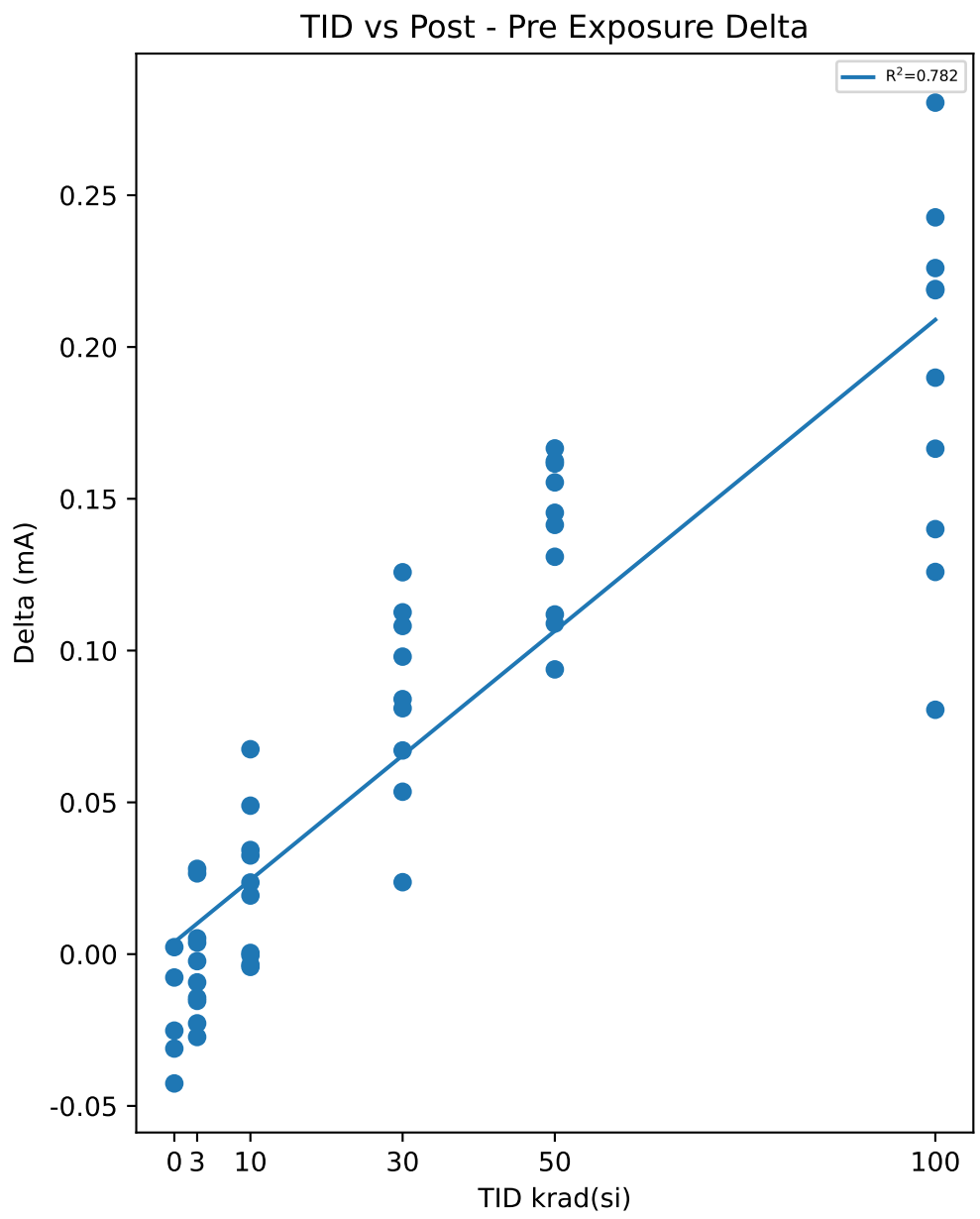
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	4.8245	4.8493	0.0248
411	100	Unbiased	4.8712	4.9113	0.0401
444	30	Unbiased	4.8344	4.8306	-0.0038
454	10	Unbiased	4.8822	4.8628	-0.0194
491	3	Unbiased	4.8763	4.8745	-0.0018
500	100	Unbiased	4.8565	4.8936	0.0371
534	100	Biased	4.8866	4.8994	0.0128
558	0	Correlation	4.8851	4.8738	-0.0113
563	100	Biased	4.9422	4.9501	0.0079
570	3	Unbiased	4.8231	4.8308	0.0077
614	10	Unbiased	4.9397	4.928	-0.0117
675	3	Biased	4.863	4.8599	-0.0031
713	100	Unbiased	4.8447	4.8622	0.0175
744	50	Biased	4.8957	4.9297	0.034
799	50	Biased	4.7757	4.8261	0.0504
842	30	Unbiased	4.8337	4.843	0.0093
889	3	Unbiased	4.8526	4.855	0.0024
901	3	Biased	4.8715	4.8709	-0.0006
930	50	Unbiased	4.8391	4.8516	0.0125
968	100	Unbiased	4.8936	4.9129	0.0193
976	100	Unbiased	4.8892	4.8934	0.0042
981	3	Biased	4.8661	4.8654	-0.0007
1003	10	Biased	4.7787	4.7748	-0.0039
1039	3	Biased	4.7988	4.7969	-0.0019
1053	100	Biased	4.9292	4.9453	0.0161
1056	0	Correlation	4.8039	4.7953	-0.0086
1072	10	Biased	4.7944	4.7854	-0.009
1095	50	Unbiased	4.8662	4.8622	-0.004
1099	0	Correlation	4.7453	4.7339	-0.0114
1113	3	Biased	4.7945	4.8062	0.0117
1142	10	Unbiased	4.8699	4.8694	-0.0005
1154	10	Biased	4.7412	4.7422	0.001
1215	50	Unbiased	4.848	4.8651	0.0171
1222	100	Biased	4.8977	4.8778	-0.0199
1229	50	Unbiased	4.8681	4.9022	0.0341
1255	3	Unbiased	4.8714	4.88	0.0086
1331	30	Unbiased	4.8241	4.834	0.0099
1359	30	Biased	4.8432	4.8827	0.0395
1375	30	Unbiased	4.7971	4.8154	0.0183
1398	30	Biased	4.86	4.8527	-0.0073
1411	50	Biased	4.8716	4.9088	0.0372
1465	10	Unbiased	4.86	4.857	-0.003
1474	50	Biased	4.7552	4.7731	0.0179
1504	50	Biased	4.8479	4.8608	0.0129
1540	100	Biased	4.8627	4.9168	0.0541
1554	3	Unbiased	4.8155	4.8071	-0.0084
1662	30	Biased	4.8489	4.8547	0.0058
1679	10	Biased	4.8587	4.8601	0.0014
1697	10	Biased	4.8057	4.7973	-0.0084
1703	30	Biased	4.7932	4.8254	0.0322
1704	10	Unbiased	4.8626	4.8637	0.0011
1736	30	Biased	4.8792	4.8726	-0.0066
1737	0	Correlation	4.8078	4.8024	-0.0054
1748	0	Correlation	4.8407	4.8311	-0.0096

Test Statistics (mA)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	4.7453	4.8166	4.8851	0.051467	4.7339	4.8073	4.8738	0.051343	-0.0114	-0.00926	-0.0054	0.0024593
3	4.7945	4.8433	4.8763	0.031991	4.7969	4.8447	4.88	0.031553	-0.0084	0.00139	0.0117	0.0061864
10	4.7412	4.8393	4.9397	0.058353	4.7422	4.8341	4.928	0.056423	-0.0194	-0.00524	0.0014	0.0068221
30	4.7932	4.8349	4.8792	0.027712	4.8154	4.8457	4.8827	0.02215	-0.0073	0.010811	0.0395	0.016619
50	4.7552	4.8392	4.8957	0.043797	4.7731	4.8629	4.9297	0.04454	-0.004	0.02369	0.0504	0.015625
100	4.8447	4.8874	4.9422	0.030821	4.8622	4.9063	4.9501	0.027387	-0.0199	0.01892	0.0541	0.020842

Device Test: 14.7 IDD|SUPPLY CURRENT/IN/14/14/0/0/5/500kHz//@IDD_ACT_500K_NOLOAD





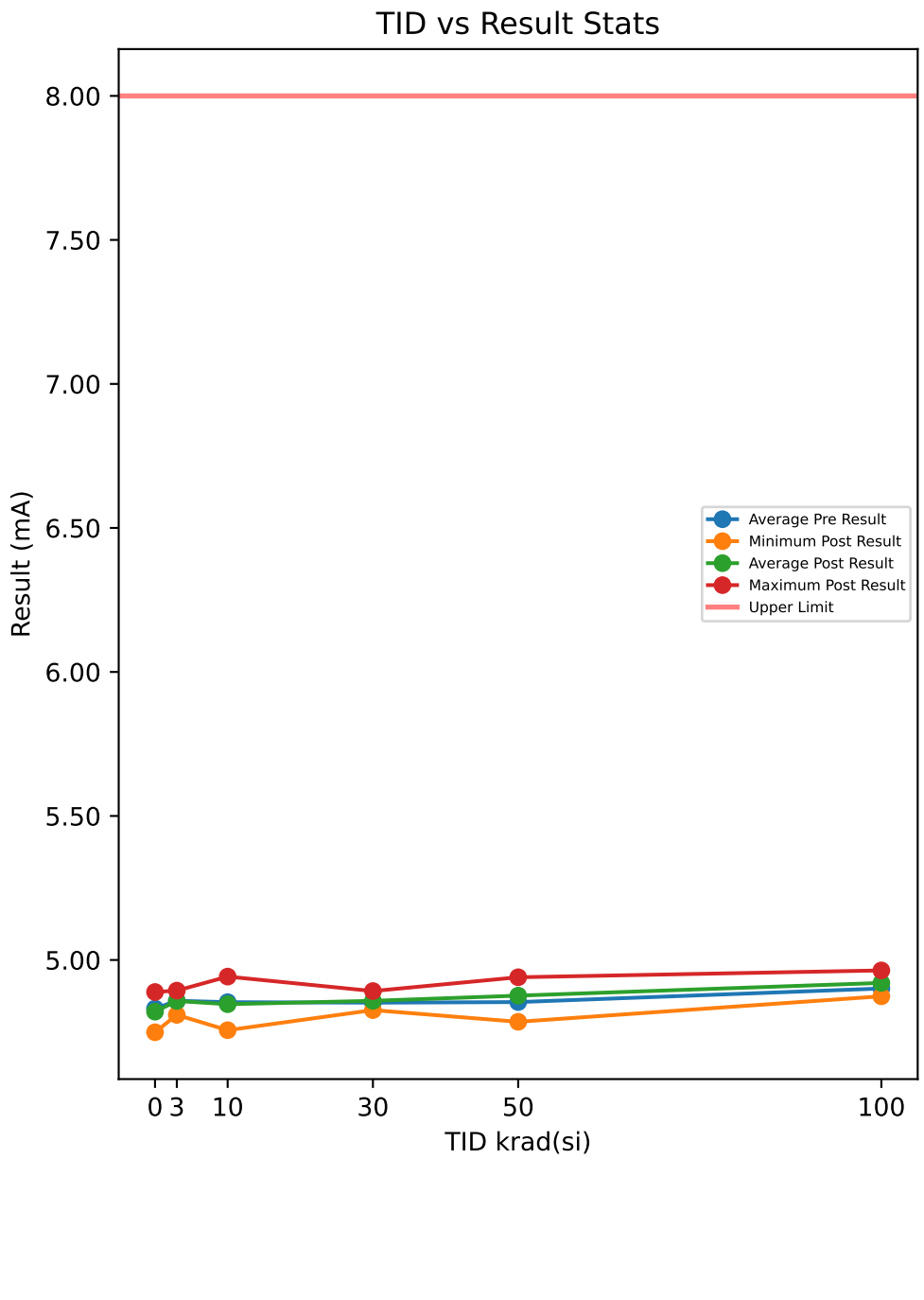
Test Results (Upper Limit = 17.0 (mA))

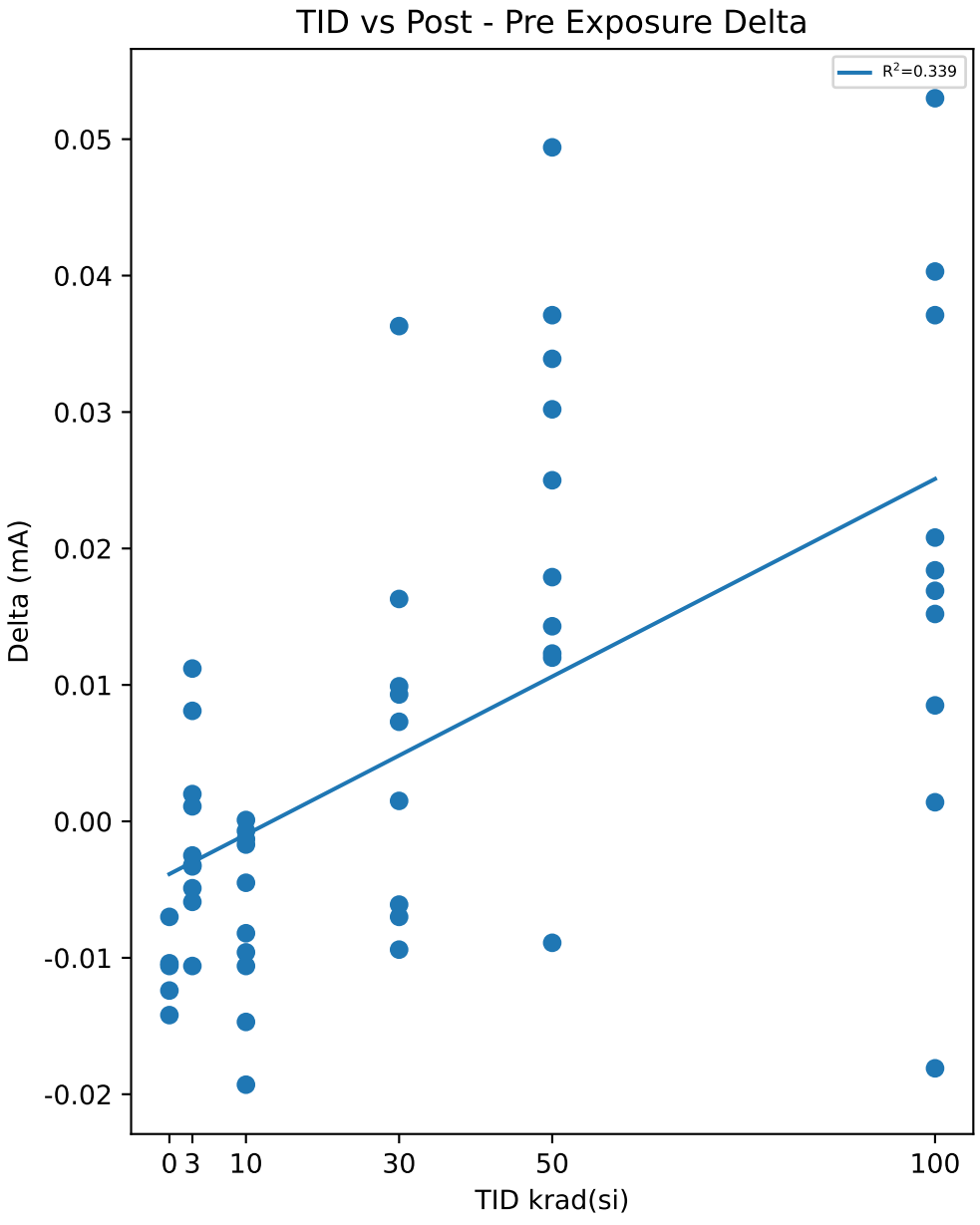
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	9.5887	9.7441	0.1554
411	100	Unbiased	9.58	9.7987	0.2187
444	30	Unbiased	9.5513	9.6353	0.084
454	10	Unbiased	9.6578	9.6771	0.0193
491	3	Unbiased	9.5592	9.5858	0.0266
500	100	Unbiased	9.6403	9.9208	0.2805
534	100	Biased	9.6397	9.8062	0.1665
558	0	Correlation	9.6491	9.6414	-0.0077
563	100	Biased	9.7922	9.9322	0.14
570	3	Unbiased	9.5512	9.5564	0.0052
614	10	Unbiased	9.8611	9.8607	-0.0004
675	3	Biased	9.6972	9.6818	-0.0154
713	100	Unbiased	9.7041	9.9232	0.2191
744	50	Biased	9.7086	9.8752	0.1666
799	50	Biased	9.5391	9.7015	0.1624
842	30	Unbiased	9.5493	9.6473	0.098
889	3	Unbiased	9.5557	9.5284	-0.0273
901	3	Biased	9.5604	9.5642	0.0038
930	50	Unbiased	9.7064	9.8478	0.1414
968	100	Unbiased	9.7309	9.9569	0.226
976	100	Unbiased	9.5838	9.7737	0.1899
981	3	Biased	9.5496	9.5352	-0.0144
1003	10	Biased	9.4361	9.4686	0.0325
1039	3	Biased	9.6609	9.6381	-0.0228
1053	100	Biased	9.7502	9.8761	0.1259
1056	0	Correlation	9.5034	9.5057	0.0023
1072	10	Biased	9.4656	9.466	0.0004
1095	50	Unbiased	9.6946	9.8065	0.1119
1099	0	Correlation	9.3422	9.317	-0.0252
1113	3	Biased	9.3965	9.3872	-0.0093
1142	10	Unbiased	9.5648	9.6323	0.0675
1154	10	Biased	9.3676	9.3641	-0.0035
1215	50	Unbiased	9.5243	9.6552	0.1309
1222	100	Biased	9.738	9.8185	0.0805
1229	50	Unbiased	9.7339	9.8955	0.1616
1255	3	Unbiased	9.456	9.4841	0.0281
1331	30	Unbiased	9.5785	9.6595	0.081
1359	30	Biased	9.4873	9.6131	0.1258
1375	30	Unbiased	9.4259	9.5385	0.1126
1398	30	Biased	9.4609	9.5144	0.0535
1411	50	Biased	9.6305	9.7759	0.1454
1465	10	Unbiased	9.6288	9.6631	0.0343
1474	50	Biased	9.493	9.5868	0.0938
1504	50	Biased	9.6703	9.7792	0.1089
1540	100	Biased	9.5186	9.7613	0.2427
1554	3	Unbiased	9.5182	9.5159	-0.0023
1662	30	Biased	9.6746	9.6983	0.0237
1679	10	Biased	9.5398	9.5887	0.0489
1697	10	Biased	9.4571	9.4529	-0.0042
1703	30	Biased	9.527	9.6351	0.1081
1704	10	Unbiased	9.6237	9.6473	0.0236
1736	30	Biased	9.5876	9.6547	0.0671
1737	0	Correlation	9.5643	9.5332	-0.0311
1748	0	Correlation	9.6633	9.6207	-0.0426

Test Statistics (mA)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	9.3422	9.5445	9.6633	0.13044	9.317	9.5236	9.6414	0.12884	-0.0426	-0.02086	0.0023	0.018069
3	9.3965	9.5505	9.6972	0.086667	9.3872	9.5477	9.6818	0.081172	-0.0273	-0.00278	0.0281	0.01904
10	9.3676	9.5602	9.8611	0.14194	9.3641	9.5821	9.8607	0.14552	-0.0042	0.02184	0.0675	0.024427
30	9.4259	9.538	9.6746	0.074387	9.5144	9.6218	9.6983	0.059071	0.0237	0.083756	0.1258	0.03202
50	9.493	9.6289	9.7339	0.087246	9.5868	9.7668	9.8955	0.097935	0.0938	0.13783	0.1666	0.025541
100	9.5186	9.6678	9.7922	0.088859	9.7613	9.8568	9.9569	0.073038	0.0805	0.18898	0.2805	0.060622

Device Test: 14.8 IDD_DIS|STANDBY CURRENT/IN/14/14/0/0/5/500kHz//@IDD_DIS





Test Results (Upper Limit = 8.0 (mA))

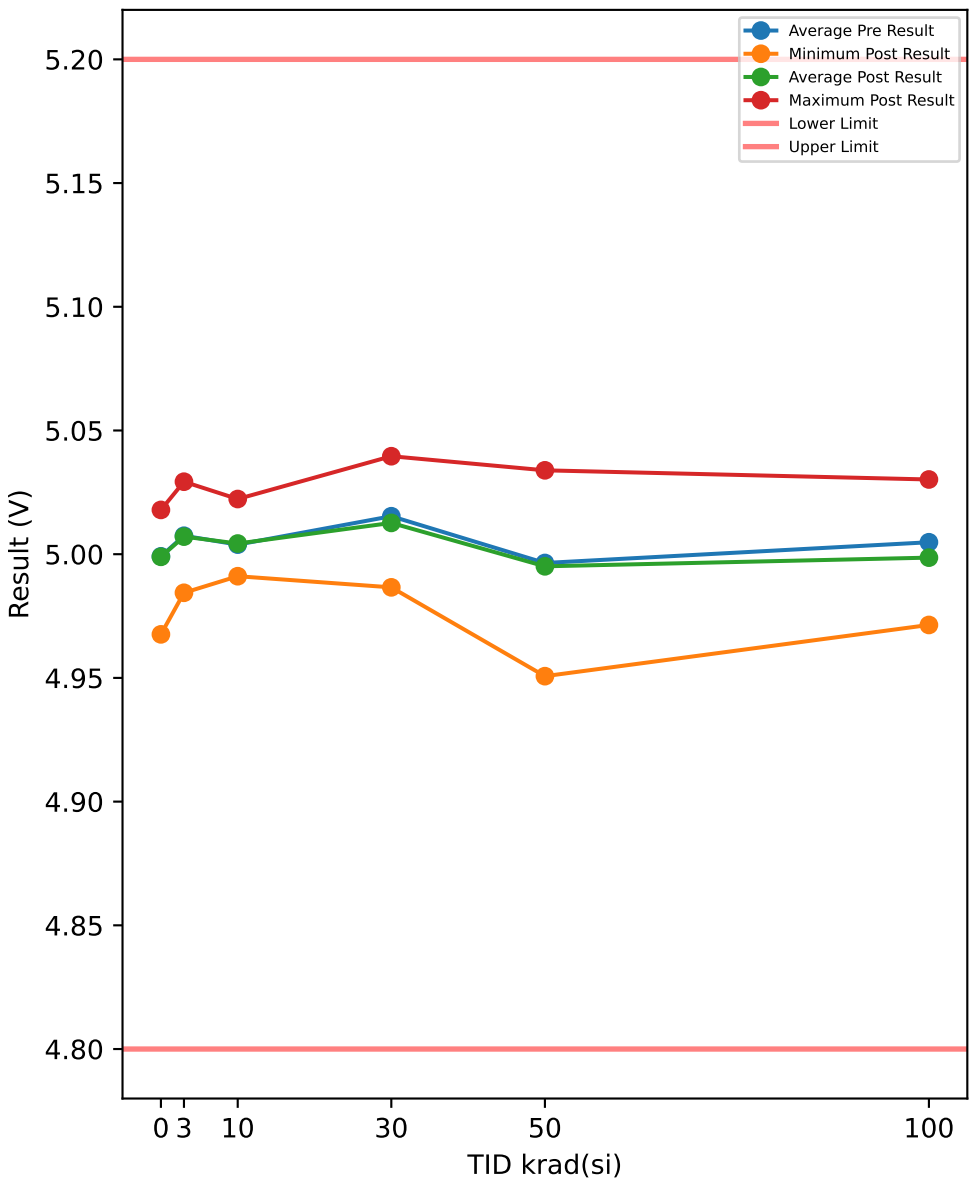
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	4.8393	4.8643	0.025
411	100	Unbiased	4.8871	4.9274	0.0403
444	30	Unbiased	4.8503	4.8442	-0.0061
454	10	Unbiased	4.8947	4.8754	-0.0193
491	3	Unbiased	4.8899	4.8874	-0.0025
500	100	Unbiased	4.8671	4.9042	0.0371
534	100	Biased	4.8993	4.9145	0.0152
558	0	Correlation	4.9012	4.8888	-0.0124
563	100	Biased	4.9552	4.9637	0.0085
570	3	Unbiased	4.8404	4.8424	0.002
614	10	Unbiased	4.957	4.9423	-0.0147
675	3	Biased	4.8767	4.8708	-0.0059
713	100	Unbiased	4.857	4.8739	0.0169
744	50	Biased	4.9061	4.94	0.0339
799	50	Biased	4.7913	4.8407	0.0494
842	30	Unbiased	4.8456	4.8555	0.0099
889	3	Unbiased	4.8687	4.8698	0.0011
901	3	Biased	4.8881	4.8848	-0.0033
930	50	Unbiased	4.8537	4.866	0.0123
968	100	Unbiased	4.9071	4.9279	0.0208
976	100	Unbiased	4.9084	4.9098	0.0014
981	3	Biased	4.8858	4.8809	-0.0049
1003	10	Biased	4.7936	4.7854	-0.0082
1039	3	Biased	4.8126	4.8094	-0.0032
1053	100	Biased	4.9389	4.9573	0.0184
1056	0	Correlation	4.8153	4.8083	-0.007
1072	10	Biased	4.8067	4.7971	-0.0096
1095	50	Unbiased	4.8831	4.8742	-0.0089
1099	0	Correlation	4.7632	4.749	-0.0142
1113	3	Biased	4.8068	4.818	0.0112
1142	10	Unbiased	4.8817	4.8804	-0.0013
1154	10	Biased	4.7579	4.7562	-0.0017
1215	50	Unbiased	4.8613	4.8792	0.0179
1222	100	Biased	4.9112	4.8931	-0.0181
1229	50	Unbiased	4.8857	4.9159	0.0302
1255	3	Unbiased	4.8855	4.8936	0.0081
1331	30	Unbiased	4.8395	4.8488	0.0093
1359	30	Biased	4.8558	4.8921	0.0363
1375	30	Unbiased	4.8097	4.826	0.0163
1398	30	Biased	4.8723	4.8629	-0.0094
1411	50	Biased	4.884	4.9211	0.0371
1465	10	Unbiased	4.873	4.8685	-0.0045
1474	50	Biased	4.7734	4.7854	0.012
1504	50	Biased	4.8606	4.8749	0.0143
1540	100	Biased	4.8784	4.9314	0.053
1554	3	Unbiased	4.8293	4.8187	-0.0106
1662	30	Biased	4.865	4.8665	0.0015
1679	10	Biased	4.872	4.8721	0.0001
1697	10	Biased	4.8204	4.8098	-0.0106
1703	30	Biased	4.8332	4.8405	0.0073
1704	10	Unbiased	4.8781	4.8774	-0.0007
1736	30	Biased	4.8945	4.8875	-0.007
1737	0	Correlation	4.8224	4.812	-0.0104
1748	0	Correlation	4.855	4.8444	-0.0106

Test Statistics (mA)

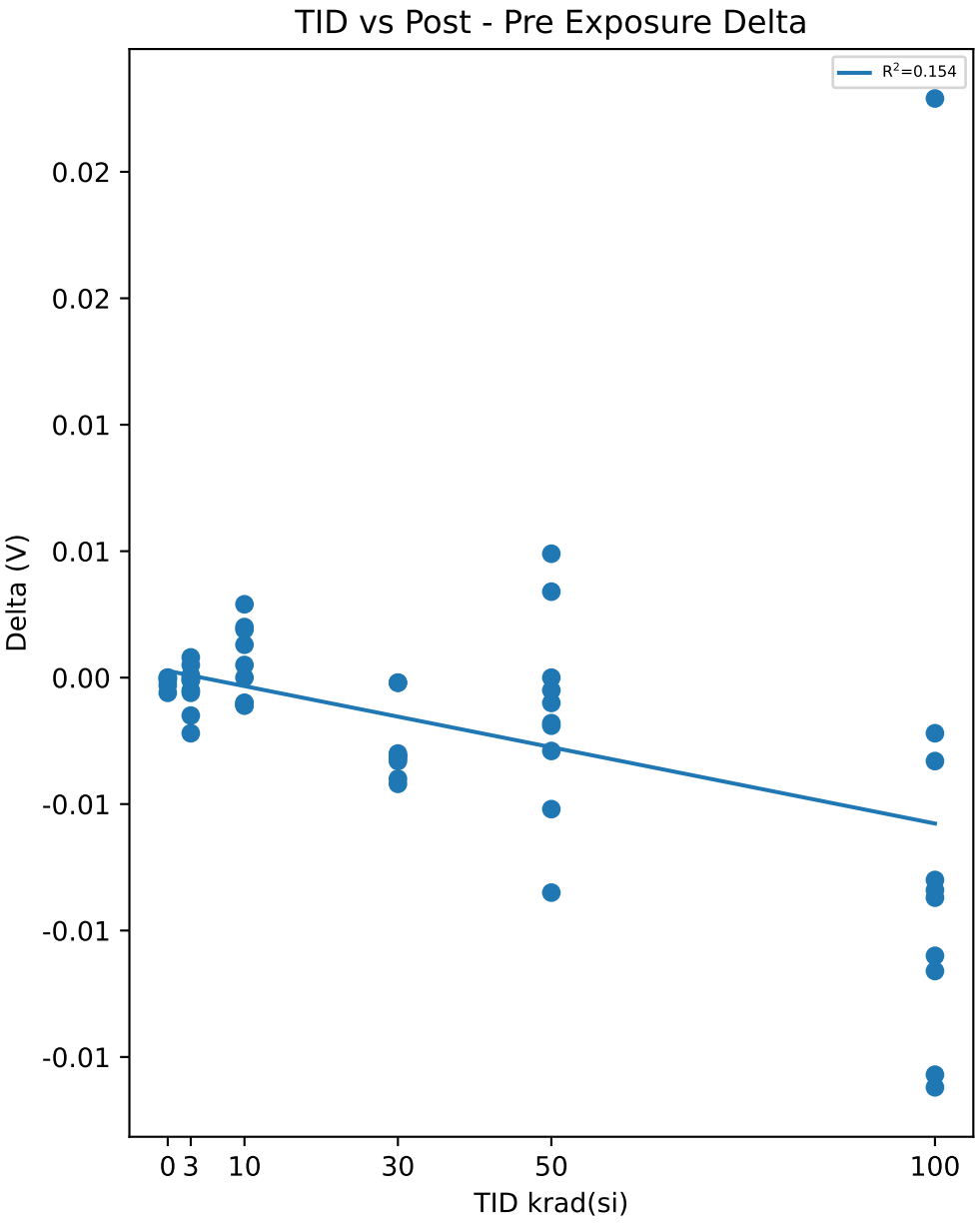
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	4.7632	4.8314	4.9012	0.05104	4.749	4.8205	4.8888	0.051404	-0.0142	-0.01092	-0.007	0.0026781
3	4.8068	4.8584	4.8899	0.032883	4.8094	4.8576	4.8936	0.032362	-0.0106	-0.0008	0.0112	0.0065695
10	4.7579	4.8535	4.957	0.058258	4.7562	4.8465	4.9423	0.056697	-0.0193	-0.00705	0.0001	0.0065714
30	4.8097	4.8518	4.8945	0.024352	4.826	4.8582	4.8921	0.021623	-0.0094	0.0064556	0.0363	0.014243
50	4.7734	4.8538	4.9061	0.042435	4.7854	4.8762	4.94	0.044005	-0.0089	0.02232	0.0494	0.0164
100	4.857	4.901	4.9552	0.030482	4.8739	4.9203	4.9637	0.027447	-0.0181	0.01935	0.053	0.020426

Device Test: 15.15 VLDO|V_VLDO/VLDO/8/8/0/0/5/500kHz//@V_LDO_INT

TID vs Result Stats



TID vs Post - Pre Exposure Delta



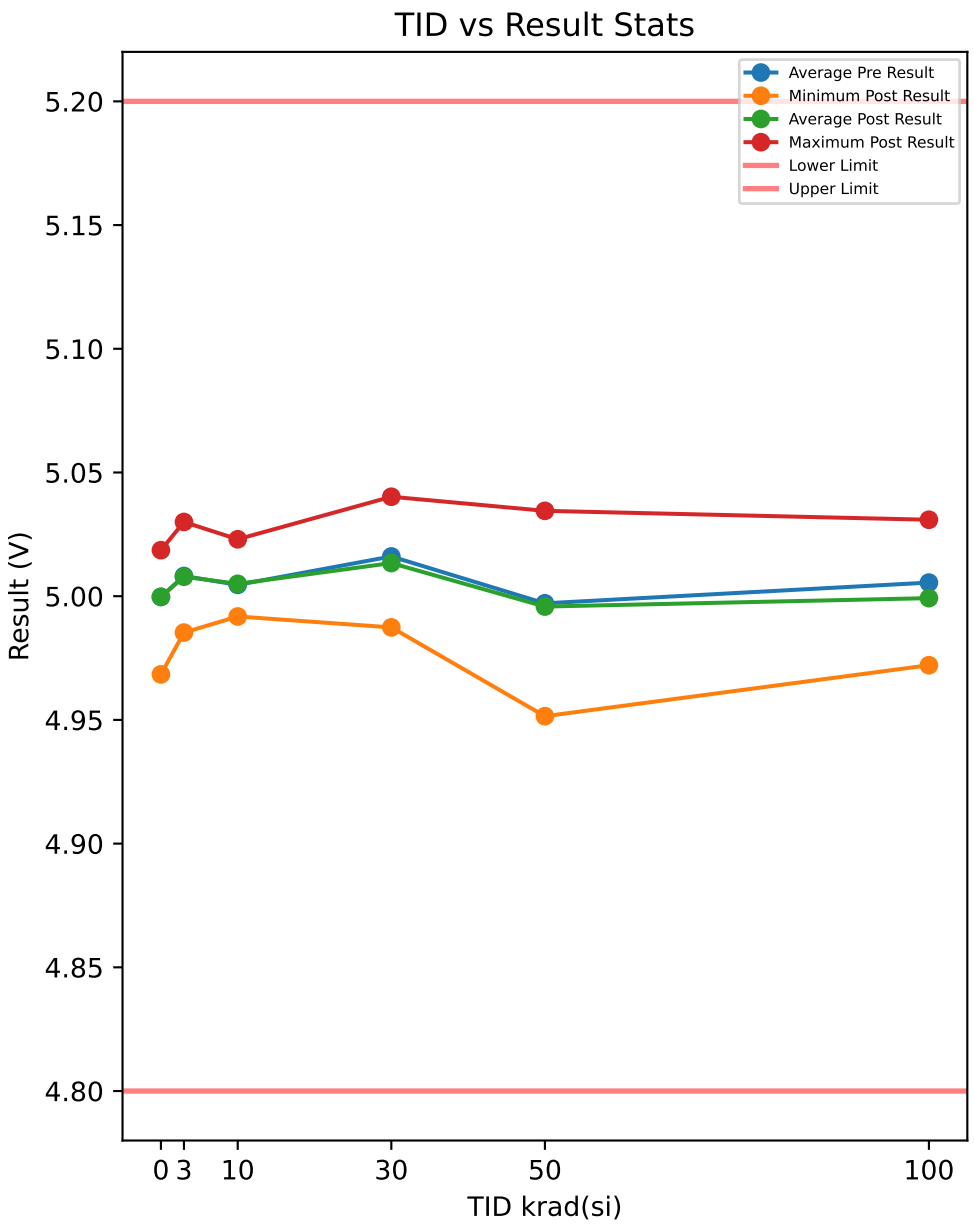
Test Results (Lower Limit = 4.8, Upper Limit = 5.2 (V))

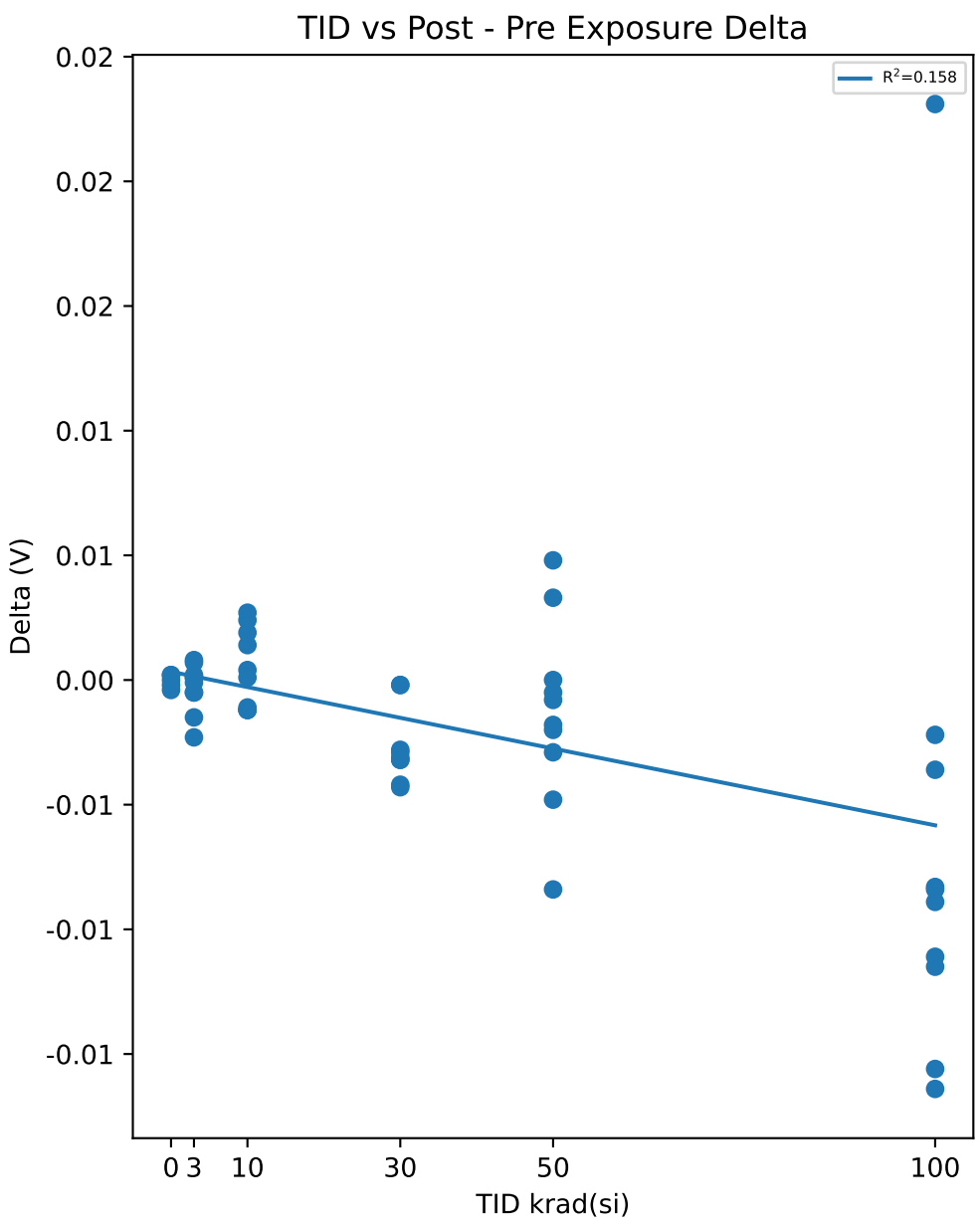
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	5.0146	5.0127	-0.0019
411	100	Unbiased	5.0029	4.9949	-0.008
444	30	Unbiased	4.9997	4.9995	-0.0002
454	10	Unbiased	5.0027	5.0027	0
491	3	Unbiased	5.0171	5.0176	0.0005
500	100	Unbiased	4.9973	4.994	-0.0033
534	100	Biased	5.0025	4.9915	-0.011
558	0	Correlation	4.9965	4.9962	-0.0003
563	100	Biased	5.0173	5.0086	-0.0087
570	3	Unbiased	5.0017	5.0025	0.0008
614	10	Unbiased	5.0041	5.0046	0.0005
675	3	Biased	4.9851	4.9852	0.0001
713	100	Unbiased	5.0047	4.9885	-0.0162
744	50	Biased	4.9842	4.9832	-0.001
799	50	Biased	4.967	4.967	0
842	30	Unbiased	4.9898	4.9866	-0.0032
889	3	Unbiased	5.0315	5.0293	-0.0022
901	3	Biased	5.029	5.0275	-0.0015
930	50	Unbiased	5.0267	5.0301	0.0034
968	100	Unbiased	5.0073	5.0302	0.0229
976	100	Unbiased	4.9893	4.9871	-0.0022
981	3	Biased	5.0296	5.029	-0.0006
1003	10	Biased	4.9942	4.9932	-0.001
1039	3	Biased	5.0025	5.0025	0
1053	100	Biased	5.0149	4.9992	-0.0157
1056	0	Correlation	5.0048	5.0042	-0.0006
1072	10	Biased	5.0036	5.0025	-0.0011
1095	50	Unbiased	5.0065	5.006	-0.0005
1099	0	Correlation	5.0089	5.0088	-0.0001
1113	3	Biased	4.9863	4.9858	-0.0005
1142	10	Unbiased	5.0082	5.0071	-0.0011
1154	10	Biased	4.9892	4.9911	0.0019
1215	50	Unbiased	5.0056	5.0105	0.0049
1222	100	Biased	5.0291	5.0207	-0.0084
1229	50	Unbiased	5.0368	5.0339	-0.0029
1255	3	Unbiased	4.9845	4.9844	-0.0001
1331	30	Unbiased	5.0427	5.0396	-0.0031
1359	30	Biased	5.0164	5.0134	-0.003
1375	30	Unbiased	5.0288	5.0246	-0.0042
1398	30	Biased	5.0052	5.0021	-0.0031
1411	50	Biased	4.9908	4.9856	-0.0052
1465	10	Unbiased	5.0006	5.0019	0.0013
1474	50	Biased	4.9592	4.9507	-0.0085
1504	50	Biased	4.9731	4.9713	-0.0018
1540	100	Biased	4.983	4.9714	-0.0116
1554	3	Unbiased	5.0073	5.0072	-0.0001
1662	30	Biased	5.0238	5.0198	-0.004
1679	10	Biased	5.0194	5.0223	0.0029
1697	10	Biased	5.0185	5.0175	-0.001
1703	30	Biased	5.0269	5.0267	-0.0002
1704	10	Unbiased	4.9982	5.0002	0.002
1736	30	Biased	5.0048	5.0015	-0.0033
1737	0	Correlation	4.9676	4.9676	0
1748	0	Correlation	5.0179	5.0179	0

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	4.9676	4.9991	5.0179	0.019242	4.9676	4.9989	5.0179	0.019197	-0.0006	-0.0002	0	0.00025495
3	4.9845	5.0075	5.0315	0.018731	4.9844	5.0071	5.0293	0.018226	-0.0022	-0.00036	0.0008	0.0009021
10	4.9892	5.0039	5.0194	0.009586	4.9911	5.0043	5.0223	0.0096147	-0.0011	0.00044	0.0029	0.0015072
30	4.9898	5.0153	5.0427	0.016759	4.9866	5.0126	5.0396	0.016603	-0.0042	-0.0027	-0.0002	0.0014773
50	4.9592	4.9965	5.0368	0.025905	4.9507	4.9951	5.0339	0.0278	-0.0085	-0.00135	0.0049	0.0038463
100	4.983	5.0048	5.0291	0.013481	4.9714	4.9986	5.0302	0.017149	-0.0162	-0.00622	0.0229	0.011195

Device Test: 15.16 VLDO|V_VLDO/VLDO/12/12/0/0/5/500kHz//@V_LDO_INT





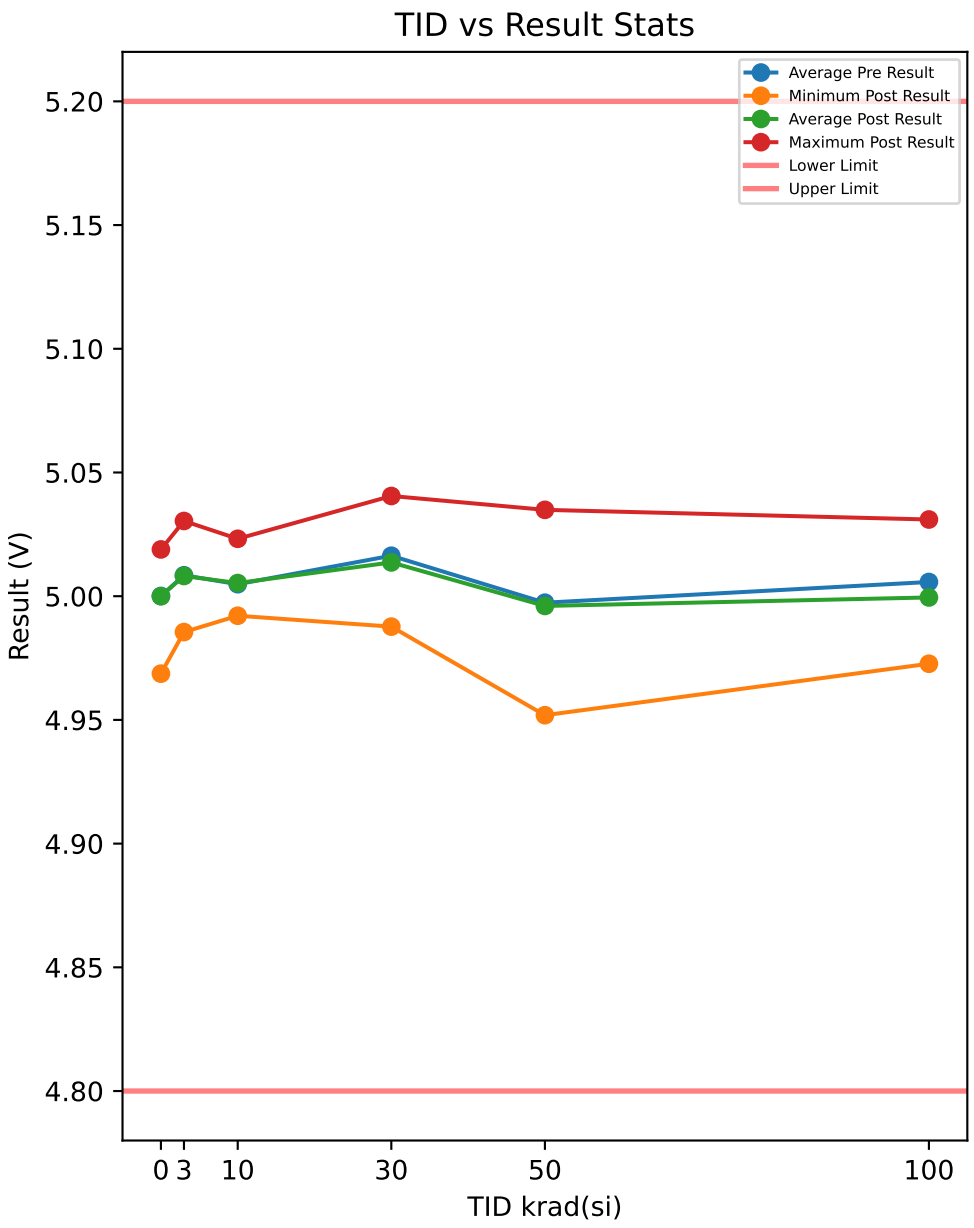
Test Results (Lower Limit = 4.8, Upper Limit = 5.2 (V))

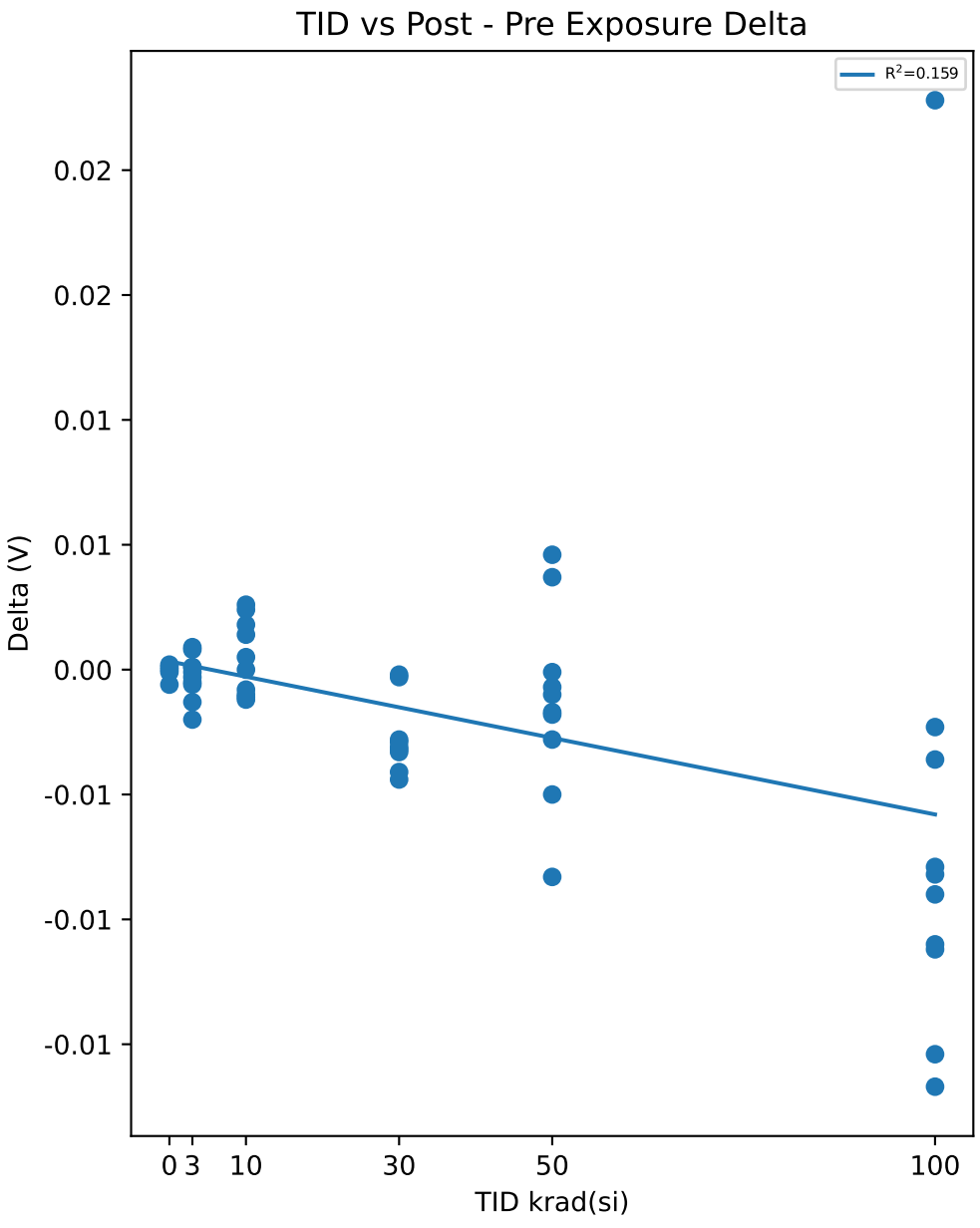
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	5.0153	5.0133	-0.002
411	100	Unbiased	5.0036	4.9953	-0.0083
444	30	Unbiased	5.0004	5.0002	-0.0002
454	10	Unbiased	5.0034	5.0035	0.0001
491	3	Unbiased	5.0177	5.0184	0.0007
500	100	Unbiased	4.9979	4.9943	-0.0036
534	100	Biased	5.0032	4.9921	-0.0111
558	0	Correlation	4.997	4.9968	-0.0002
563	100	Biased	5.018	5.0091	-0.0089
570	3	Unbiased	5.0025	5.0033	0.0008
614	10	Unbiased	5.0049	5.0053	0.0004
675	3	Biased	4.9857	4.9859	0.0002
713	100	Unbiased	5.0055	4.9891	-0.0164
744	50	Biased	4.9848	4.984	-0.0008
799	50	Biased	4.9678	4.9678	0
842	30	Unbiased	4.9903	4.9874	-0.0029
889	3	Unbiased	5.0323	5.03	-0.0023
901	3	Biased	5.0297	5.0282	-0.0015
930	50	Unbiased	5.0274	5.0307	0.0033
968	100	Unbiased	5.0078	5.0309	0.0231
976	100	Unbiased	4.9901	4.9879	-0.0022
981	3	Biased	5.0304	5.0299	-0.0005
1003	10	Biased	4.9949	4.9937	-0.0012
1039	3	Biased	5.0032	5.0033	0.0001
1053	100	Biased	5.0156	5	-0.0156
1056	0	Correlation	5.0055	5.0051	-0.0004
1072	10	Biased	5.0044	5.0032	-0.0012
1095	50	Unbiased	5.0073	5.0068	-0.0005
1099	0	Correlation	5.0094	5.0096	0.0002
1113	3	Biased	4.987	4.9865	-0.0005
1142	10	Unbiased	5.0089	5.0078	-0.0011
1154	10	Biased	4.9899	4.9918	0.0019
1215	50	Unbiased	5.0063	5.0111	0.0048
1222	100	Biased	5.0297	5.0213	-0.0084
1229	50	Unbiased	5.0374	5.0345	-0.0029
1255	3	Unbiased	4.9852	4.9853	0.0001
1331	30	Unbiased	5.0434	5.0402	-0.0032
1359	30	Biased	5.0172	5.0141	-0.0031
1375	30	Unbiased	5.0297	5.0254	-0.0043
1398	30	Biased	5.0058	5.003	-0.0028
1411	50	Biased	4.9913	4.9865	-0.0048
1465	10	Unbiased	5.0012	5.0026	0.0014
1474	50	Biased	4.9599	4.9515	-0.0084
1504	50	Biased	4.9737	4.9719	-0.0018
1540	100	Biased	4.9836	4.9721	-0.0115
1554	3	Unbiased	5.0081	5.008	-0.0001
1662	30	Biased	5.0246	5.0204	-0.0042
1679	10	Biased	5.0203	5.023	0.0027
1697	10	Biased	5.0193	5.0181	-0.0012
1703	30	Biased	5.0277	5.0275	-0.0002
1704	10	Unbiased	4.9986	5.001	0.0024
1736	30	Biased	5.0055	5.0023	-0.0032
1737	0	Correlation	4.9684	4.9684	0
1748	0	Correlation	5.0184	5.0186	0.0002

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	4.9684	4.9997	5.0184	0.019134	4.9684	4.9997	5.0186	0.019186	-0.0004	-4e-05	0.0002	0.00026077
3	4.9852	5.0082	5.0323	0.018763	4.9853	5.0079	5.03	0.018226	-0.0023	-0.0003	0.0008	0.00096264
10	4.9899	5.0046	5.0203	0.0096631	4.9918	5.005	5.023	0.009619	-0.0012	0.00042	0.0027	0.0015831
30	4.9903	5.0161	5.0434	0.016841	4.9874	5.0134	5.0402	0.016554	-0.0043	-0.0026778	-0.0002	0.0015006
50	4.9599	4.9971	5.0374	0.025899	4.9515	4.9958	5.0345	0.02773	-0.0084	-0.00131	0.0048	0.0037551
100	4.9836	5.0055	5.0297	0.013469	4.9721	4.9992	5.0309	0.017145	-0.0164	-0.00629	0.0231	0.011266

Device Test: 15.17 VLDO|V_VLDO/VLDO/14/14/0/0/5/500kHz//@V_LDO_INT





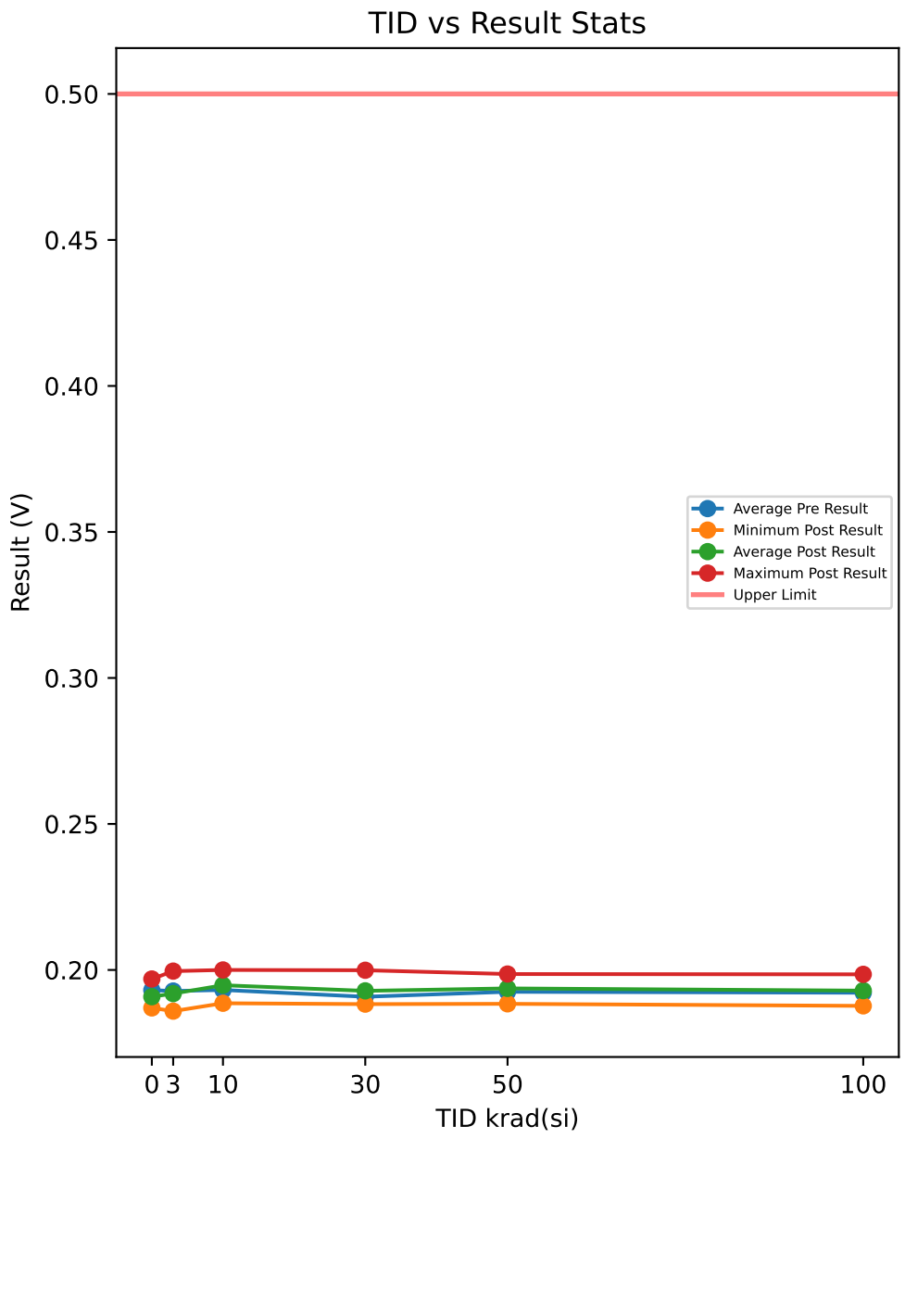
Test Results (Lower Limit = 4.8, Upper Limit = 5.2 (V))

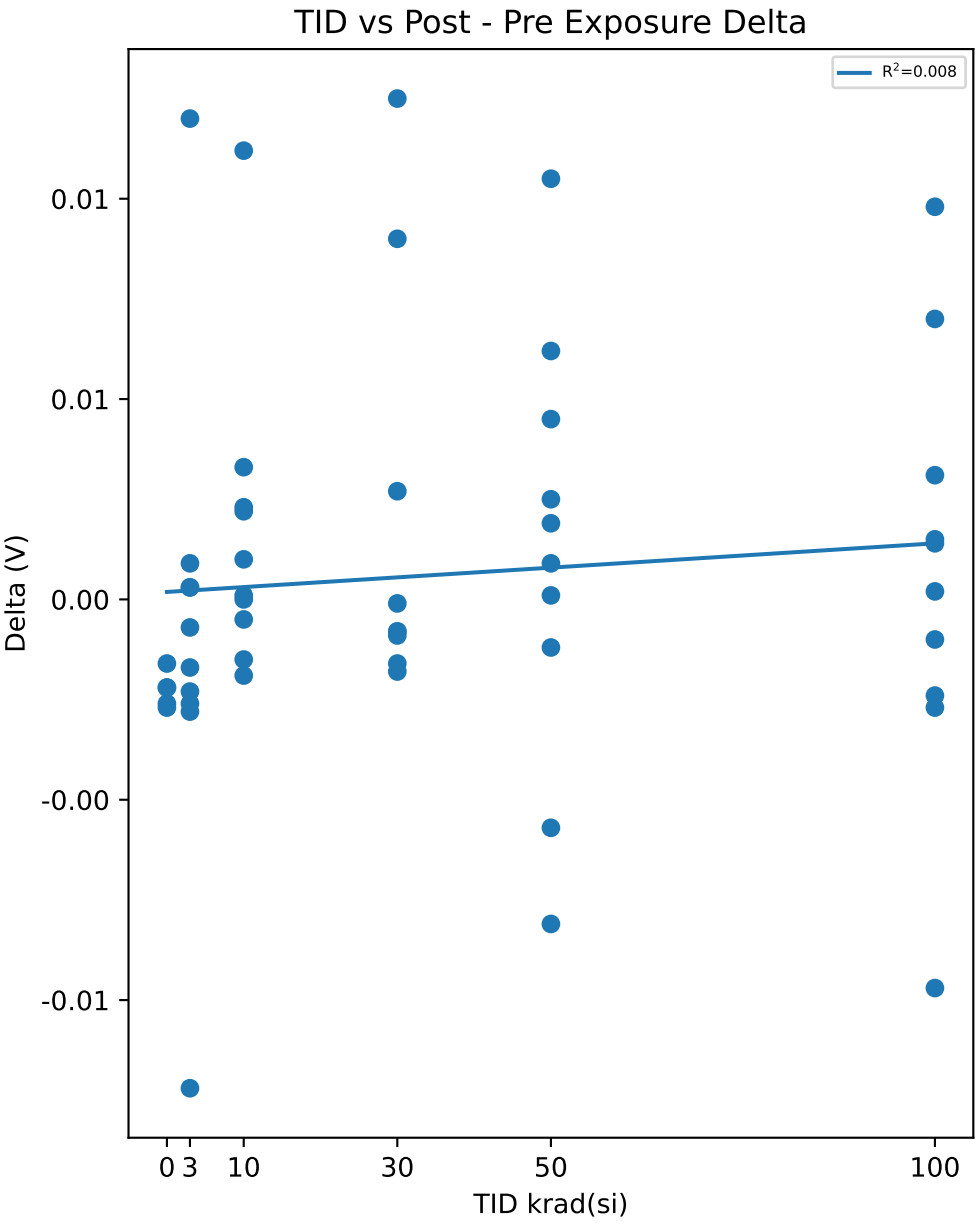
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	5.0154	5.0136	-0.0018
411	100	Unbiased	5.0037	4.9958	-0.0079
444	30	Unbiased	5.0006	5.0003	-0.0003
454	10	Unbiased	5.0037	5.0037	0
491	3	Unbiased	5.0179	5.0187	0.0008
500	100	Unbiased	4.9981	4.9945	-0.0036
534	100	Biased	5.0035	4.9925	-0.011
558	0	Correlation	4.9973	4.9972	-0.0001
563	100	Biased	5.0183	5.0093	-0.009
570	3	Unbiased	5.0027	5.0036	0.0009
614	10	Unbiased	5.0051	5.0056	0.0005
675	3	Biased	4.9861	4.9862	0.0001
713	100	Unbiased	5.0056	4.9889	-0.0167
744	50	Biased	4.9851	4.9841	-0.001
799	50	Biased	4.9681	4.968	-0.0001
842	30	Unbiased	4.9905	4.9877	-0.0028
889	3	Unbiased	5.0324	5.0304	-0.002
901	3	Biased	5.0299	5.0286	-0.0013
930	50	Unbiased	5.0274	5.0311	0.0037
968	100	Unbiased	5.0082	5.031	0.0228
976	100	Unbiased	4.9903	4.988	-0.0023
981	3	Biased	5.0307	5.0302	-0.0005
1003	10	Biased	4.995	4.9942	-0.0008
1039	3	Biased	5.0036	5.0035	-0.0001
1053	100	Biased	5.0158	5.0004	-0.0154
1056	0	Correlation	5.0059	5.0053	-0.0006
1072	10	Biased	5.0046	5.0035	-0.0011
1095	50	Unbiased	5.0075	5.0068	-0.0007
1099	0	Correlation	5.0097	5.0099	0.0002
1113	3	Biased	4.9874	4.9868	-0.0006
1142	10	Unbiased	5.0092	5.008	-0.0012
1154	10	Biased	4.9903	4.9921	0.0018
1215	50	Unbiased	5.0067	5.0113	0.0046
1222	100	Biased	5.03	5.0218	-0.0082
1229	50	Unbiased	5.0377	5.0349	-0.0028
1255	3	Unbiased	4.9854	4.9855	0.0001
1331	30	Unbiased	5.0438	5.0405	-0.0033
1359	30	Biased	5.0174	5.0145	-0.0029
1375	30	Unbiased	5.0299	5.0258	-0.0041
1398	30	Biased	5.0062	5.0031	-0.0031
1411	50	Biased	4.9916	4.9866	-0.005
1465	10	Unbiased	5.0015	5.0029	0.0014
1474	50	Biased	4.9602	4.9519	-0.0083
1504	50	Biased	4.974	4.9723	-0.0017
1540	100	Biased	4.9839	4.9727	-0.0112
1554	3	Unbiased	5.0085	5.0082	-0.0003
1662	30	Biased	5.025	5.0206	-0.0044
1679	10	Biased	5.0206	5.0232	0.0026
1697	10	Biased	5.0195	5.0185	-0.001
1703	30	Biased	5.028	5.0278	-0.0002
1704	10	Unbiased	4.999	5.0014	0.0024
1736	30	Biased	5.0058	5.0026	-0.0032
1737	0	Correlation	4.9687	4.9687	0
1748	0	Correlation	5.0188	5.0189	0.0001

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	4.9687	5.0001	5.0188	0.019166	4.9687	5	5.0189	0.019176	-0.0006	-8e-05	0.0002	0.00031145
3	4.9854	5.0085	5.0324	0.018704	4.9855	5.0082	5.0304	0.018269	-0.002	-0.00029	0.0009	0.00088374
10	4.9903	5.0048	5.0206	0.0096449	4.9921	5.0053	5.0232	0.0095815	-0.0012	0.00046	0.0026	0.0014961
30	4.9905	5.0164	5.0438	0.01688	4.9877	5.0137	5.0405	0.016594	-0.0044	-0.0027	-0.0002	0.0014866
50	4.9602	4.9974	5.0377	0.025844	4.9519	4.9961	5.0349	0.027741	-0.0083	-0.00131	0.0046	0.0037572
100	4.9839	5.0057	5.03	0.013485	4.9727	4.9995	5.031	0.017117	-0.0167	-0.00625	0.0228	0.011158

Device Test: 15.19 VLDO|VDO_VLDO/VLDO/8/8/0/0/5/500kHz//@V_LDO_DO_INT





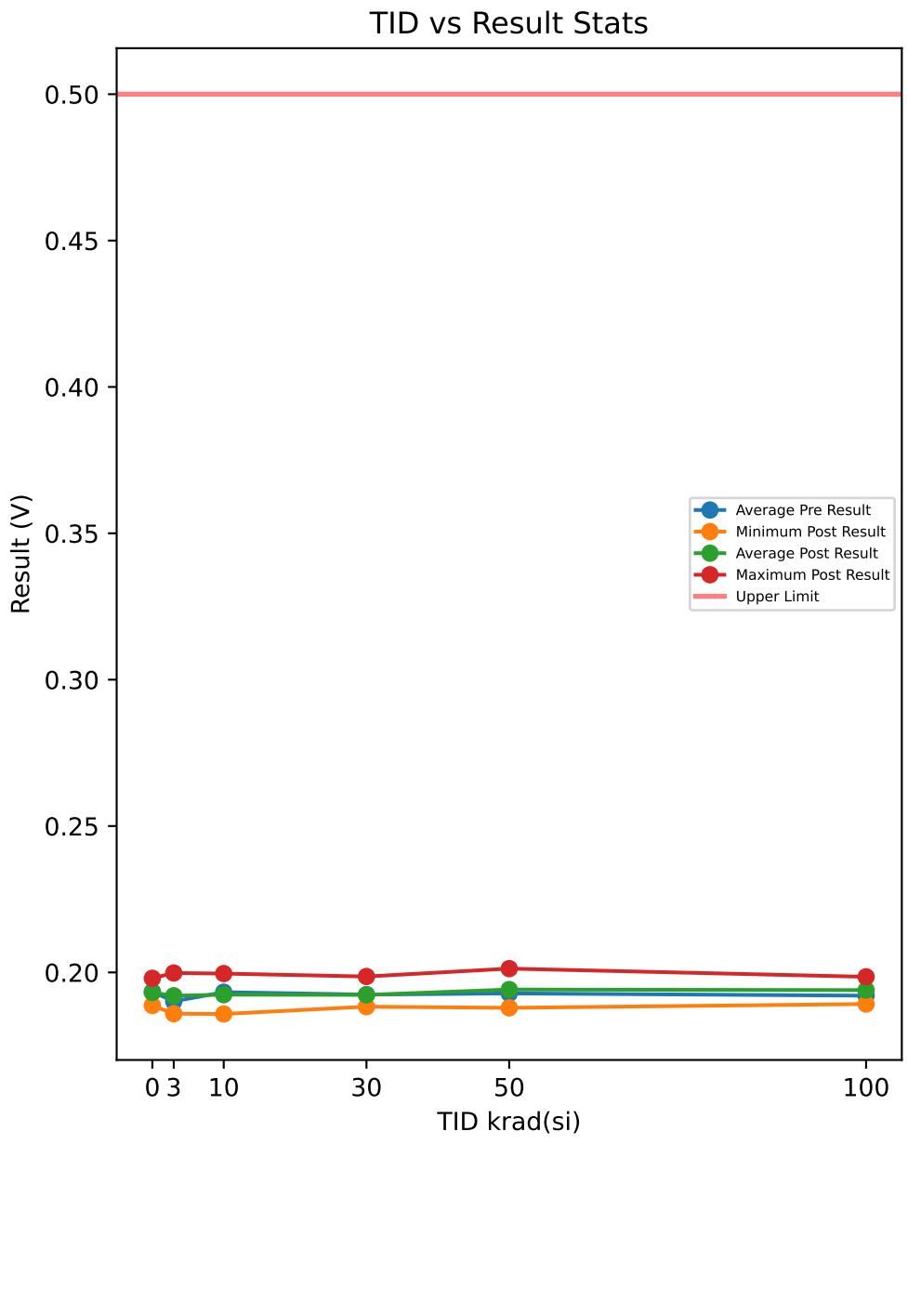
Test Results (Upper Limit = 0.5 (V))

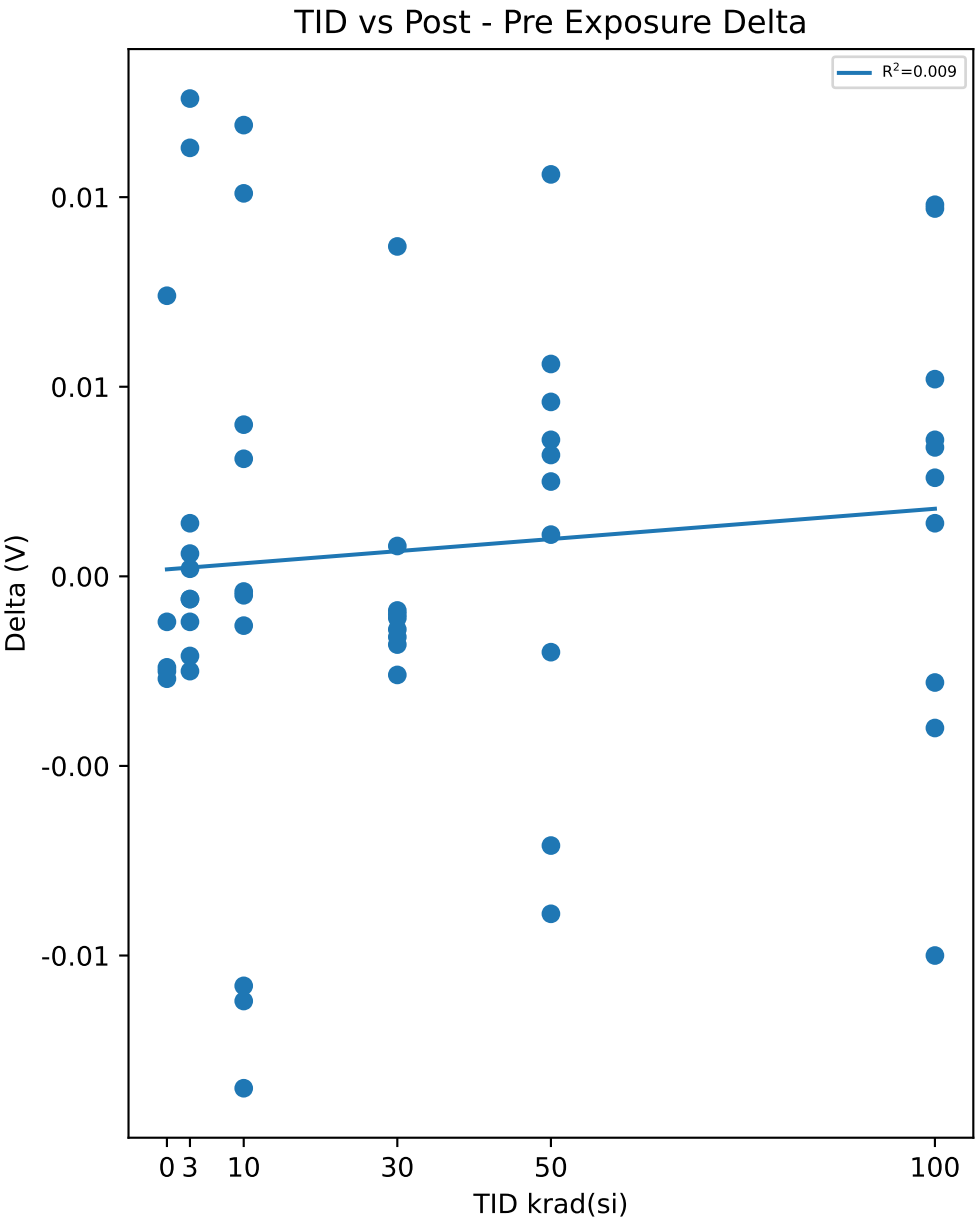
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	0.188	0.1899	0.0019
411	100	Unbiased	0.1887	0.1985	0.0098
444	30	Unbiased	0.1874	0.1999	0.0125
454	10	Unbiased	0.1925	0.1925	0
491	3	Unbiased	0.1892	0.1901	0.0009
500	100	Unbiased	0.1988	0.1891	-0.0097
534	100	Biased	0.1924	0.1897	-0.0027
558	0	Correlation	0.1985	0.1969	-0.0016
563	100	Biased	0.1906	0.1896	-0.001
570	3	Unbiased	0.1997	0.1875	-0.0122
614	10	Unbiased	0.1922	0.1932	0.001
675	3	Biased	0.1902	0.1905	0.0003
713	100	Unbiased	0.1944	0.1958	0.0014
744	50	Biased	0.1885	0.193	0.0045
799	50	Biased	0.197	0.1889	-0.0081
842	30	Unbiased	0.19	0.1884	-0.0016
889	3	Unbiased	0.1909	0.1881	-0.0028
901	3	Biased	0.201	0.1984	-0.0026
930	50	Unbiased	0.1997	0.194	-0.0057
968	100	Unbiased	0.1934	0.1949	0.0015
976	100	Unbiased	0.19	0.1931	0.0031
981	3	Biased	0.1876	0.1996	0.012
1003	10	Biased	0.1923	0.1908	-0.0015
1039	3	Biased	0.1924	0.1907	-0.0017
1053	100	Biased	0.1882	0.1952	0.007
1056	0	Correlation	0.1913	0.1887	-0.0026
1072	10	Biased	0.1884	0.1996	0.0112
1095	50	Unbiased	0.1938	0.1963	0.0025
1099	0	Correlation	0.1909	0.1887	-0.0022
1113	3	Biased	0.1866	0.1859	-0.0007
1142	10	Unbiased	0.1944	0.1939	-0.0005
1154	10	Biased	0.1906	0.1929	0.0023
1215	50	Unbiased	0.1924	0.1986	0.0062
1222	100	Biased	0.1875	0.1877	0.0002
1229	50	Unbiased	0.1973	0.1982	0.0009
1255	3	Unbiased	0.1993	0.197	-0.0023
1331	30	Unbiased	0.1901	0.1883	-0.0018
1359	30	Biased	0.1884	0.1883	-0.0001
1375	30	Unbiased	0.1895	0.1985	0.009
1398	30	Biased	0.1904	0.1895	-0.0009
1411	50	Biased	0.1944	0.1932	-0.0012
1465	10	Unbiased	0.1999	0.2	0.0001
1474	50	Biased	0.1858	0.1963	0.0105
1504	50	Biased	0.1883	0.1884	0.0001
1540	100	Biased	0.198	0.1956	-0.0024
1554	3	Unbiased	0.1909	0.1912	0.0003
1662	30	Biased	0.193	0.1922	-0.0008
1679	10	Biased	0.1932	0.1965	0.0033
1697	10	Biased	0.1905	0.1886	-0.0019
1703	30	Biased	0.1963	0.199	0.0027
1704	10	Unbiased	0.1975	0.1997	0.0022
1736	30	Biased	0.1923	0.1915	-0.0008
1737	0	Correlation	0.1951	0.1929	-0.0022
1748	0	Correlation	0.1897	0.187	-0.0027

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.1897	0.1931	0.1985	0.0036332	0.187	0.19084	0.1969	0.0040272	-0.0027	-0.00226	-0.0016	0.00043359
3	0.1866	0.19278	0.201	0.005267	0.1859	0.1919	0.1996	0.0047666	-0.0122	-0.00088	0.012	0.0058628
10	0.1884	0.19315	0.1999	0.0034024	0.1886	0.19477	0.2	0.0039956	-0.0019	0.00162	0.0112	0.0037614
30	0.1874	0.19082	0.1963	0.0026841	0.1883	0.19284	0.1999	0.004926	-0.0018	0.0020222	0.0125	0.0051918
50	0.1858	0.19252	0.1997	0.0047048	0.1884	0.19368	0.1986	0.0037145	-0.0081	0.00116	0.0105	0.0054335
100	0.1875	0.1922	0.1988	0.0039618	0.1877	0.19292	0.1985	0.0036362	-0.0097	0.00072	0.0098	0.005394

Device Test: 15.20 VLDO|VDO_VLDO/VLDO/12/12/0/0/5/500kHz//@V_LDO_DO_INT





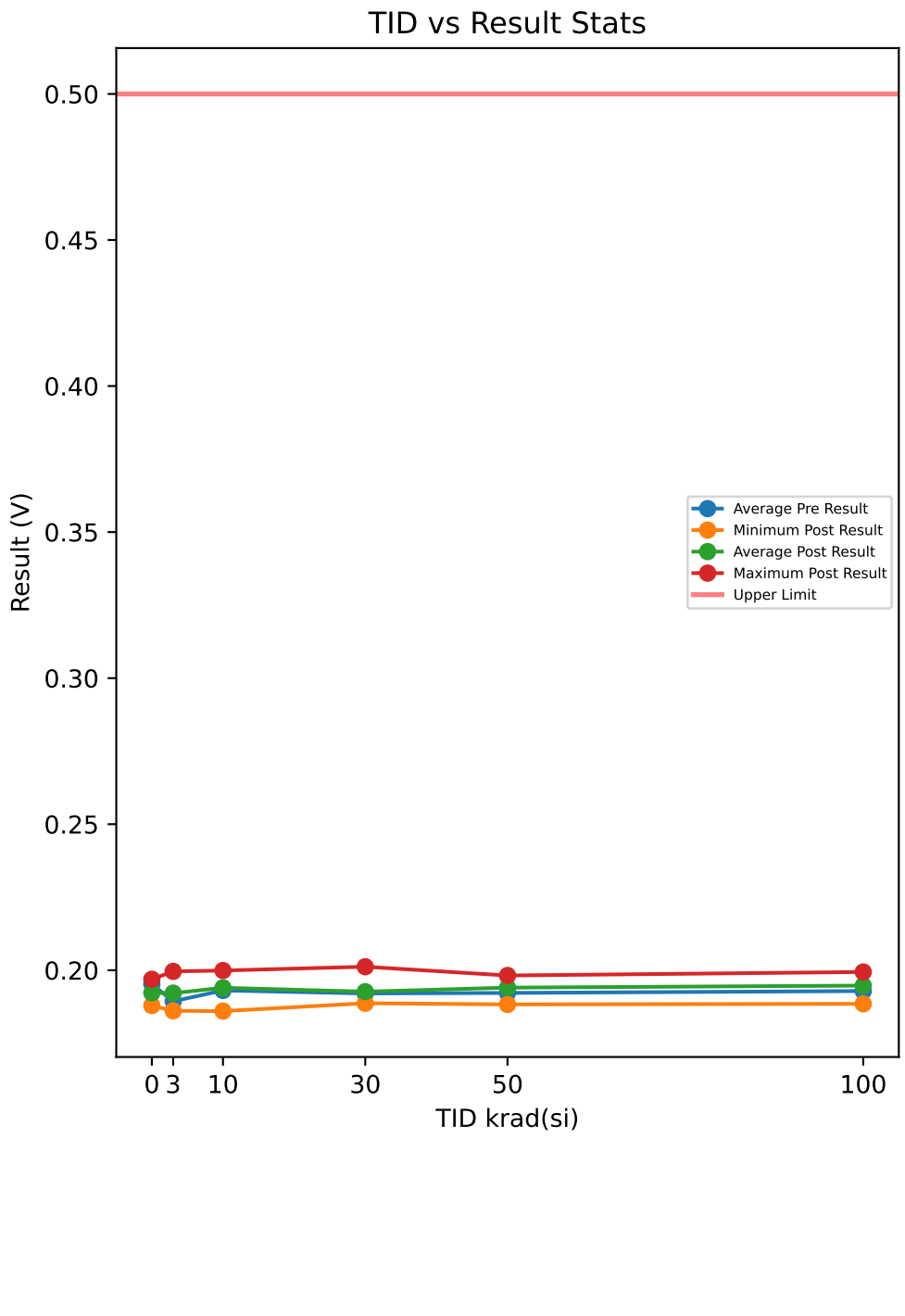
Test Results (Upper Limit = 0.5 (V))

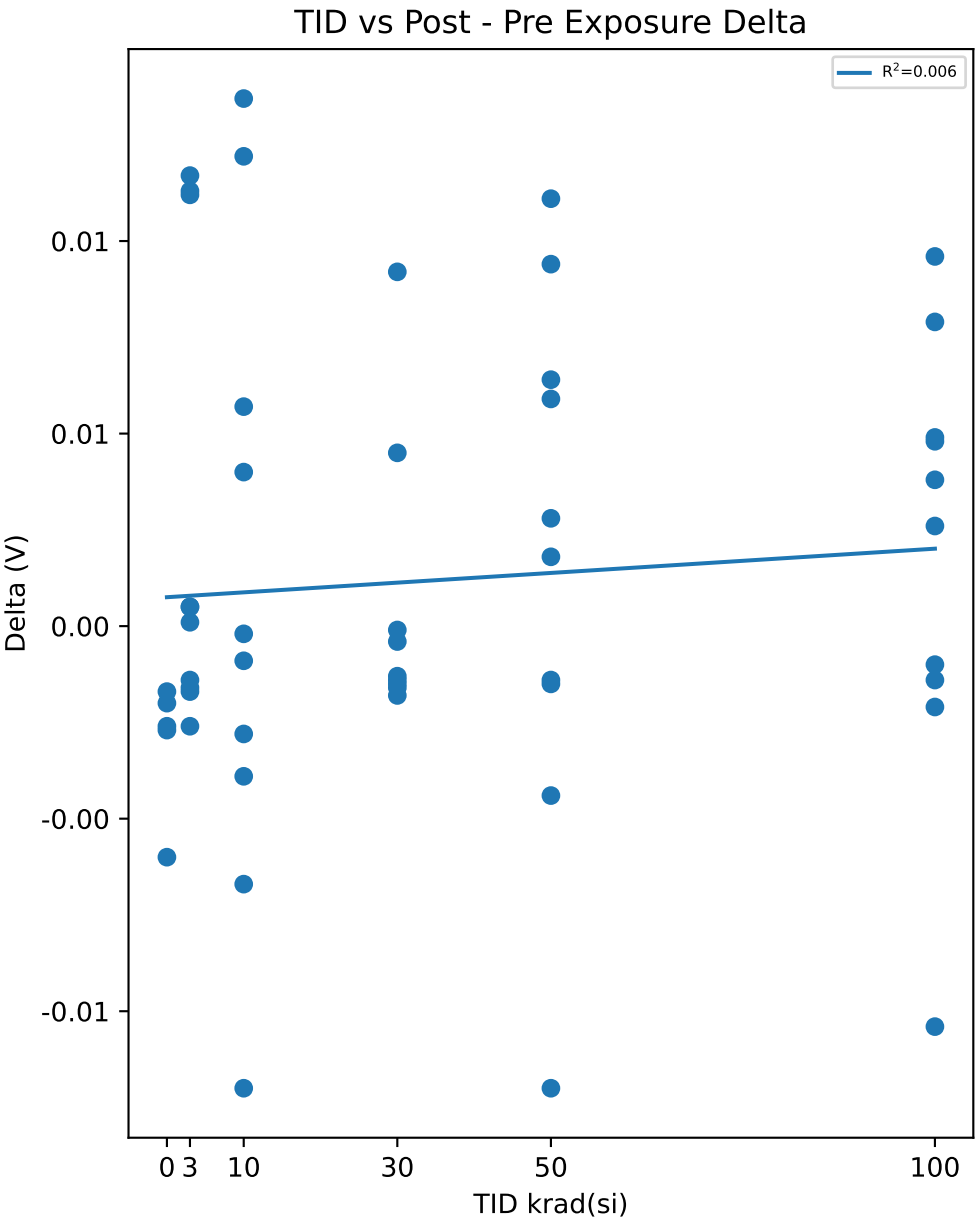
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	0.1884	0.1895	0.0011
411	100	Unbiased	0.1887	0.1985	0.0098
444	30	Unbiased	0.2004	0.1986	-0.0018
454	10	Unbiased	0.1933	0.1964	0.0031
491	3	Unbiased	0.1895	0.1897	0.0002
500	100	Unbiased	0.1992	0.1892	-0.01
534	100	Biased	0.1927	0.1979	0.0052
558	0	Correlation	0.1991	0.1966	-0.0025
563	100	Biased	0.1902	0.1916	0.0014
570	3	Unbiased	0.1868	0.1882	0.0014
614	10	Unbiased	0.1988	0.188	-0.0108
675	3	Biased	0.191	0.1904	-0.0006
713	100	Unbiased	0.1916	0.1952	0.0036
744	50	Biased	0.1887	0.1933	0.0046
799	50	Biased	0.1984	0.1895	-0.0089
842	30	Unbiased	0.1909	0.1883	-0.0026
889	3	Unbiased	0.1909	0.1888	-0.0021
901	3	Biased	0.2006	0.1981	-0.0025
930	50	Unbiased	0.1998	0.1978	-0.002
968	100	Unbiased	0.1934	0.1894	-0.004
976	100	Unbiased	0.1898	0.1932	0.0034
981	3	Biased	0.1872	0.1998	0.0126
1003	10	Biased	0.1924	0.1911	-0.0013
1039	3	Biased	0.192	0.1908	-0.0012
1053	100	Biased	0.1888	0.1985	0.0097
1056	0	Correlation	0.1906	0.198	0.0074
1072	10	Biased	0.1877	0.1996	0.0119
1095	50	Unbiased	0.1938	0.1963	0.0025
1099	0	Correlation	0.1911	0.1887	-0.0024
1113	3	Biased	0.1865	0.1859	-0.0006
1142	10	Unbiased	0.1943	0.1938	-0.0005
1154	10	Biased	0.1877	0.1873	-0.0004
1215	50	Unbiased	0.1924	0.198	0.0056
1222	100	Biased	0.1883	0.1909	0.0026
1229	50	Unbiased	0.1977	0.2013	0.0036
1255	3	Unbiased	0.1857	0.197	0.0113
1331	30	Unbiased	0.19	0.1884	-0.0016
1359	30	Biased	0.1888	0.1896	0.0008
1375	30	Unbiased	0.1894	0.1981	0.0087
1398	30	Biased	0.1904	0.1895	-0.0009
1411	50	Biased	0.195	0.1879	-0.0071
1465	10	Unbiased	0.1997	0.1862	-0.0135
1474	50	Biased	0.1861	0.1967	0.0106
1504	50	Biased	0.188	0.1912	0.0032
1540	100	Biased	0.1979	0.1951	-0.0028
1554	3	Unbiased	0.1909	0.1915	0.0006
1662	30	Biased	0.1931	0.1917	-0.0014
1679	10	Biased	0.1929	0.1969	0.004
1697	10	Biased	0.1887	0.1988	0.0101
1703	30	Biased	0.1964	0.1953	-0.0011
1704	10	Unbiased	0.197	0.1858	-0.0112
1736	30	Biased	0.1924	0.1914	-0.001
1737	0	Correlation	0.1949	0.1922	-0.0027
1748	0	Correlation	0.1914	0.1902	-0.0012

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.1906	0.19342	0.1991	0.003601	0.1887	0.19314	0.198	0.0040259	-0.0027	-0.00028	0.0074	0.0043332
3	0.1857	0.19011	0.2006	0.0043196	0.1859	0.19202	0.1998	0.0046485	-0.0025	0.00191	0.0126	0.0054278
10	0.1877	0.19325	0.1997	0.0043554	0.1858	0.19239	0.1996	0.0053756	-0.0135	-0.00086	0.0119	0.0087449
30	0.1888	0.19242	0.2004	0.0037825	0.1883	0.19232	0.1986	0.0040286	-0.0026	-0.0001	0.0087	0.0034238
50	0.1861	0.19283	0.1998	0.0048815	0.1879	0.19415	0.2013	0.0044985	-0.0089	0.00132	0.0106	0.0058853
100	0.1883	0.19206	0.1992	0.0038315	0.1892	0.19395	0.1985	0.0036293	-0.01	0.00189	0.0098	0.0061331

Device Test: 15.21 VLDO|VDO_VLDO/VLDO/14/14/0/0/5/500kHz//@V_LDO_DO_INT





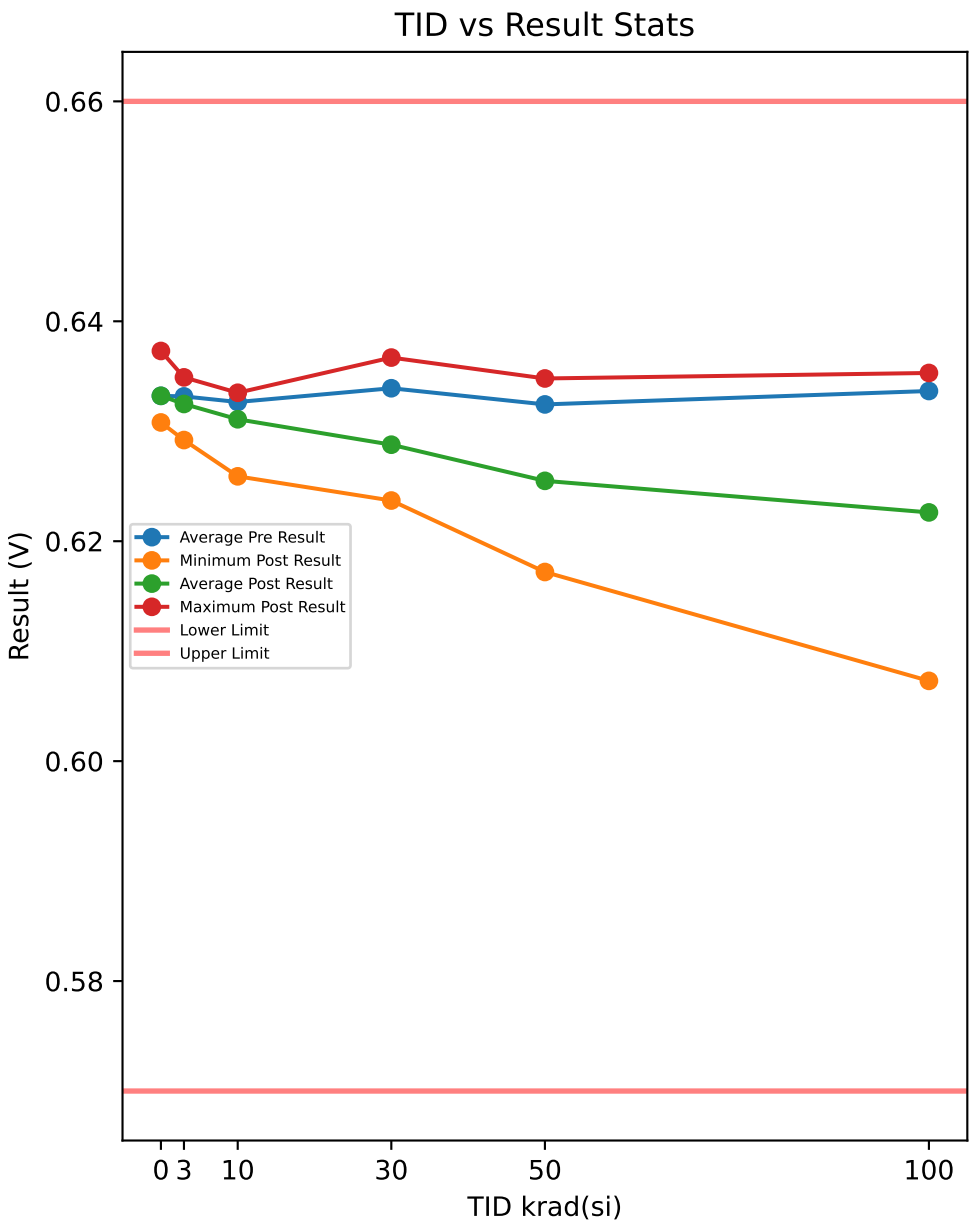
Test Results (Upper Limit = 0.5 (V))

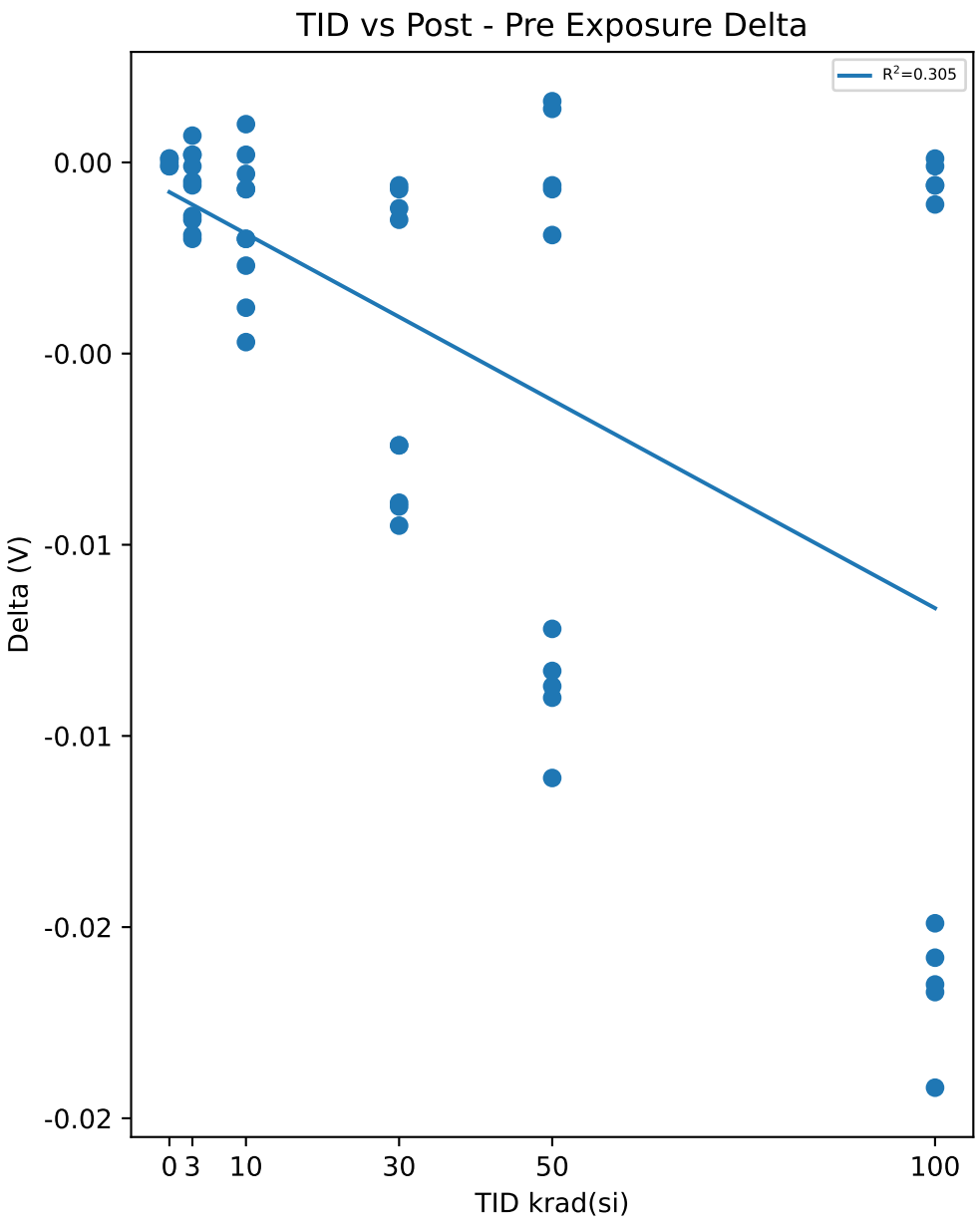
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	0.1909	0.1895	-0.0014
411	100	Unbiased	0.189	0.1986	0.0096
444	30	Unbiased	0.1908	0.1893	-0.0015
454	10	Unbiased	0.1934	0.1991	0.0057
491	3	Unbiased	0.1894	0.1899	0.0005
500	100	Unbiased	0.1995	0.1891	-0.0104
534	100	Biased	0.1928	0.1914	-0.0014
558	0	Correlation	0.1989	0.1969	-0.002
563	100	Biased	0.1929	0.1977	0.0048
570	3	Unbiased	0.1897	0.1883	-0.0014
614	10	Unbiased	0.1982	0.1915	-0.0067
675	3	Biased	0.1906	0.1907	0.0001
713	100	Unbiased	0.1956	0.1994	0.0038
744	50	Biased	0.1889	0.1953	0.0064
799	50	Biased	0.1877	0.1895	0.0018
842	30	Unbiased	0.1904	0.1891	-0.0013
889	3	Unbiased	0.1913	0.1887	-0.0026
901	3	Biased	0.1875	0.1987	0.0112
930	50	Unbiased	0.2003	0.1883	-0.012
968	100	Unbiased	0.1937	0.1963	0.0026
976	100	Unbiased	0.1899	0.1948	0.0049
981	3	Biased	0.1879	0.1996	0.0117
1003	10	Biased	0.1923	0.1914	-0.0009
1039	3	Biased	0.1923	0.1907	-0.0016
1053	100	Biased	0.1895	0.1885	-0.001
1056	0	Correlation	0.1939	0.1879	-0.006
1072	10	Biased	0.1877	0.1999	0.0122
1095	50	Unbiased	0.1937	0.1965	0.0028
1099	0	Correlation	0.1907	0.189	-0.0017
1113	3	Biased	0.1878	0.1861	-0.0017
1142	10	Unbiased	0.1945	0.1943	-0.0002
1154	10	Biased	0.1924	0.1896	-0.0028
1215	50	Unbiased	0.1923	0.1982	0.0059
1222	100	Biased	0.188	0.1959	0.0079
1229	50	Unbiased	0.199	0.1975	-0.0015
1255	3	Unbiased	0.1859	0.1972	0.0113
1331	30	Unbiased	0.1903	0.1887	-0.0016
1359	30	Biased	0.1889	0.1934	0.0045
1375	30	Unbiased	0.1896	0.1988	0.0092
1398	30	Biased	0.1903	0.1902	-0.0001
1411	50	Biased	0.1952	0.1908	-0.0044
1465	10	Unbiased	0.1861	0.1998	0.0137
1474	50	Biased	0.1862	0.1973	0.0111
1504	50	Biased	0.1881	0.1975	0.0094
1540	100	Biased	0.1978	0.1957	-0.0021
1554	3	Unbiased	0.1912	0.1917	0.0005
1662	30	Biased	0.193	0.1916	-0.0014
1679	10	Biased	0.1928	0.1968	0.004
1697	10	Biased	0.1954	0.1915	-0.0039
1703	30	Biased	0.2016	0.2012	-0.0004
1704	10	Unbiased	0.198	0.186	-0.012
1736	30	Biased	0.1935	0.1917	-0.0018
1737	0	Correlation	0.1951	0.1925	-0.0026
1748	0	Correlation	0.1977	0.195	-0.0027

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.1907	0.19526	0.1989	0.0032354	0.1879	0.19226	0.1969	0.0038318	-0.006	-0.003	-0.0017	0.0017277
3	0.1859	0.18936	0.1923	0.0020397	0.1861	0.19216	0.1996	0.004675	-0.0026	0.0028	0.0117	0.0060213
10	0.1861	0.19308	0.1982	0.0038978	0.186	0.19399	0.1999	0.0047727	-0.012	0.00091	0.0137	0.0080934
30	0.1889	0.19204	0.2016	0.0038817	0.1887	0.19267	0.2012	0.004457	-0.0018	0.00062222	0.0092	0.0037629
50	0.1862	0.19223	0.2003	0.004816	0.1883	0.19404	0.1982	0.0040026	-0.012	0.00181	0.0111	0.0069381
100	0.188	0.19287	0.1995	0.003877	0.1885	0.19474	0.1994	0.0038295	-0.0104	0.00187	0.0096	0.0058059

Device Test: 16.10 LEVEL|EN_RISE/EN/14/14/0/0/5/500kHz//@V_EN_RISE





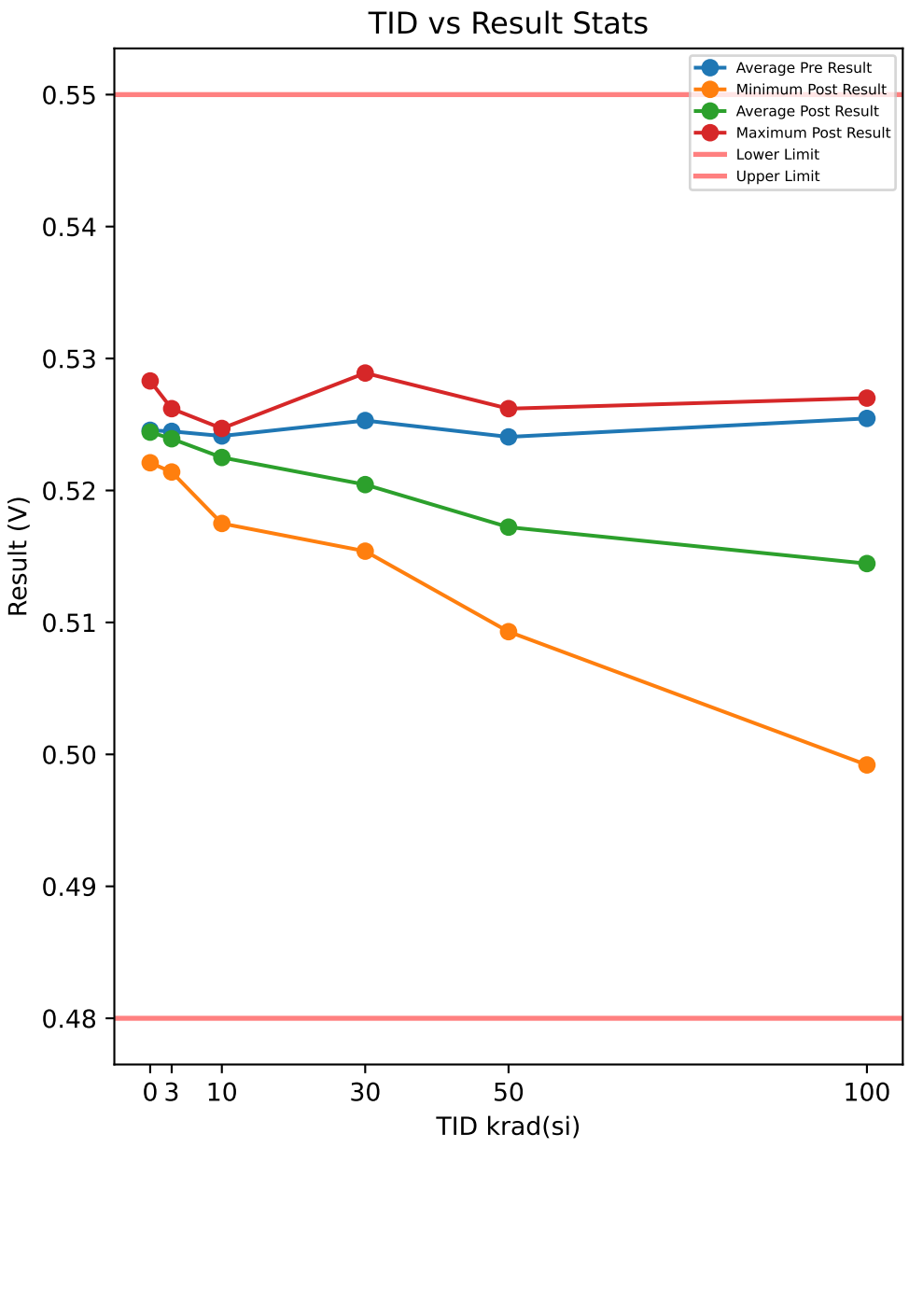
Test Results (Lower Limit = 0.57, Upper Limit = 0.66 (V))

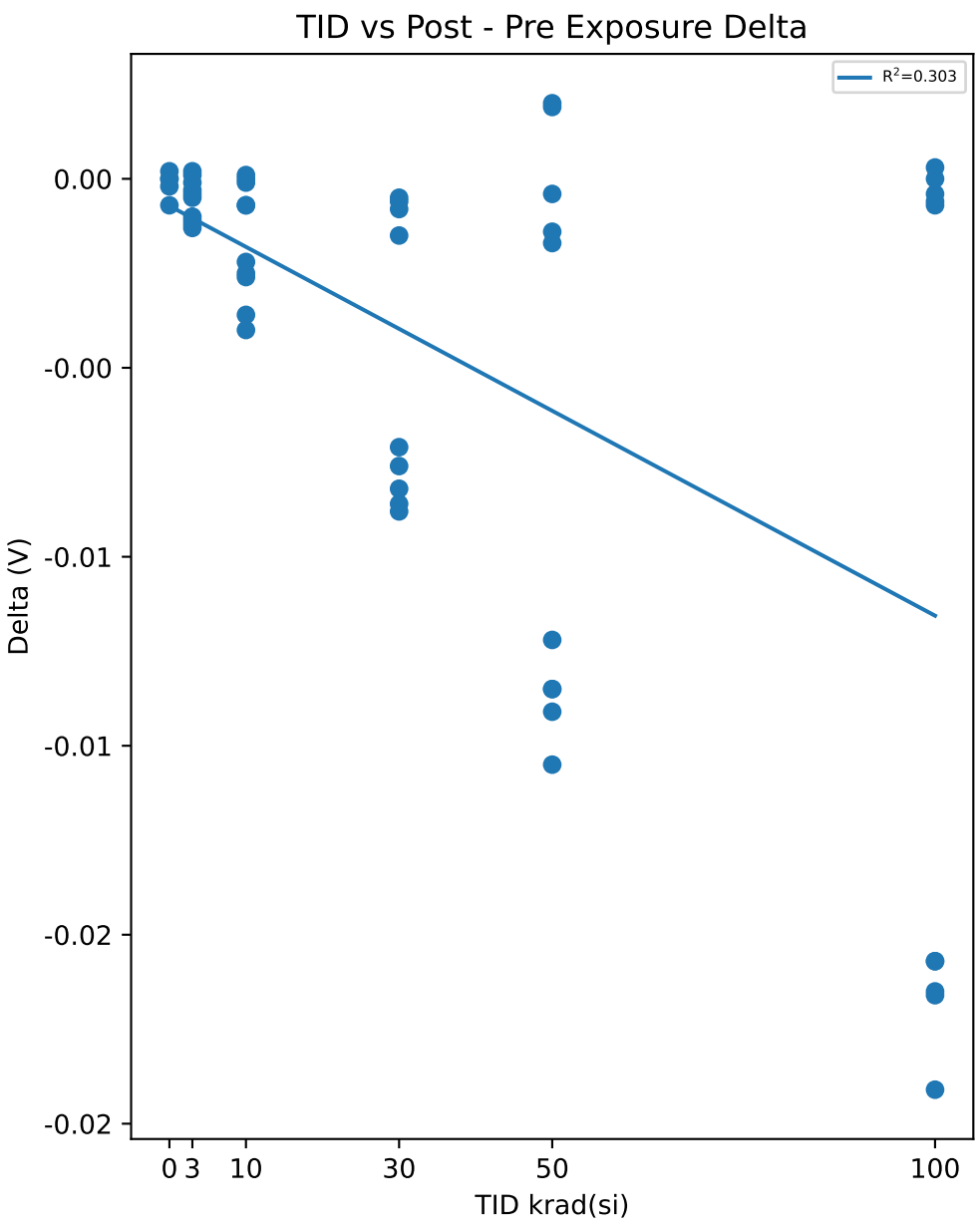
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	0.6333	0.6327	-0.0006
411	100	Unbiased	0.6326	0.632	-0.0006
444	30	Unbiased	0.6326	0.6314	-0.0012
454	10	Unbiased	0.6333	0.6335	0.0002
491	3	Unbiased	0.6333	0.6335	0.0002
500	100	Unbiased	0.6359	0.6348	-0.0011
534	100	Biased	0.6315	0.6073	-0.0242
558	0	Correlation	0.6307	0.6308	0.0001
563	100	Biased	0.6332	0.6117	-0.0215
570	3	Unbiased	0.6326	0.6333	0.0007
614	10	Unbiased	0.6334	0.6327	-0.0007
675	3	Biased	0.6333	0.6314	-0.0019
713	100	Unbiased	0.6354	0.6353	-0.0001
744	50	Biased	0.6307	0.6185	-0.0122
799	50	Biased	0.634	0.62	-0.014
842	30	Unbiased	0.6373	0.6367	-0.0006
889	3	Unbiased	0.6354	0.6349	-0.0005
901	3	Biased	0.6327	0.6313	-0.0014
930	50	Unbiased	0.6332	0.6313	-0.0019
968	100	Unbiased	0.6347	0.6348	0.0001
976	100	Unbiased	0.6354	0.6348	-0.0006
981	3	Biased	0.634	0.6334	-0.0006
1003	10	Biased	0.6347	0.632	-0.0027
1039	3	Biased	0.6312	0.6292	-0.002
1053	100	Biased	0.6319	0.6111	-0.0208
1056	0	Correlation	0.6313	0.6314	0.0001
1072	10	Biased	0.6341	0.6321	-0.002
1095	50	Unbiased	0.6332	0.6348	0.0016
1099	0	Correlation	0.6373	0.6373	0
1113	3	Biased	0.634	0.6325	-0.0015
1142	10	Unbiased	0.6312	0.6322	0.001
1154	10	Biased	0.6307	0.6287	-0.002
1215	50	Unbiased	0.6321	0.6314	-0.0007
1222	100	Biased	0.6334	0.6117	-0.0217
1229	50	Unbiased	0.6312	0.6326	0.0014
1255	3	Unbiased	0.6312	0.6314	0.0002
1331	30	Unbiased	0.6333	0.6318	-0.0015
1359	30	Biased	0.6366	0.6277	-0.0089
1375	30	Unbiased	0.63	0.6293	-0.0007
1398	30	Biased	0.6333	0.6259	-0.0074
1411	50	Biased	0.6333	0.6172	-0.0161
1465	10	Unbiased	0.6326	0.6319	-0.0007
1474	50	Biased	0.6314	0.6177	-0.0137
1504	50	Biased	0.632	0.6187	-0.0133
1540	100	Biased	0.6326	0.6127	-0.0199
1554	3	Unbiased	0.634	0.6339	-0.0001
1662	30	Biased	0.634	0.6266	-0.0074
1679	10	Biased	0.6332	0.6294	-0.0038
1697	10	Biased	0.6306	0.6259	-0.0047
1703	30	Biased	0.6327	0.6237	-0.009
1704	10	Unbiased	0.6328	0.6325	-0.0003
1736	30	Biased	0.6354	0.6259	-0.0095
1737	0	Correlation	0.6341	0.634	-0.0001
1748	0	Correlation	0.6327	0.6326	-0.0001

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.6307	0.63322	0.6373	0.0026329	0.6308	0.63322	0.6373	0.0025888	-0.0001	0	0.0001	0.0001
3	0.6312	0.63317	0.6354	0.0013073	0.6292	0.63248	0.6349	0.0016639	-0.002	-0.00069	0.0007	0.00095737
10	0.6306	0.63266	0.6347	0.0014033	0.6259	0.63109	0.6335	0.0023483	-0.0047	-0.00157	0.001	0.0018037
30	0.63	0.63391	0.6373	0.0022408	0.6237	0.62878	0.6367	0.003989	-0.0095	-0.0051333	-0.0006	0.00399
50	0.6307	0.63244	0.634	0.0011067	0.6172	0.62549	0.6348	0.0075455	-0.0161	-0.00695	0.0016	0.0074131
100	0.6315	0.63366	0.6359	0.0015792	0.6073	0.62262	0.6353	0.012464	-0.0242	-0.01104	0.0001	0.011208

Device Test: 16.11 LEVEL|EN_FALL/EN/14/14/0/0/5/500kHz//@V_EN_FALL





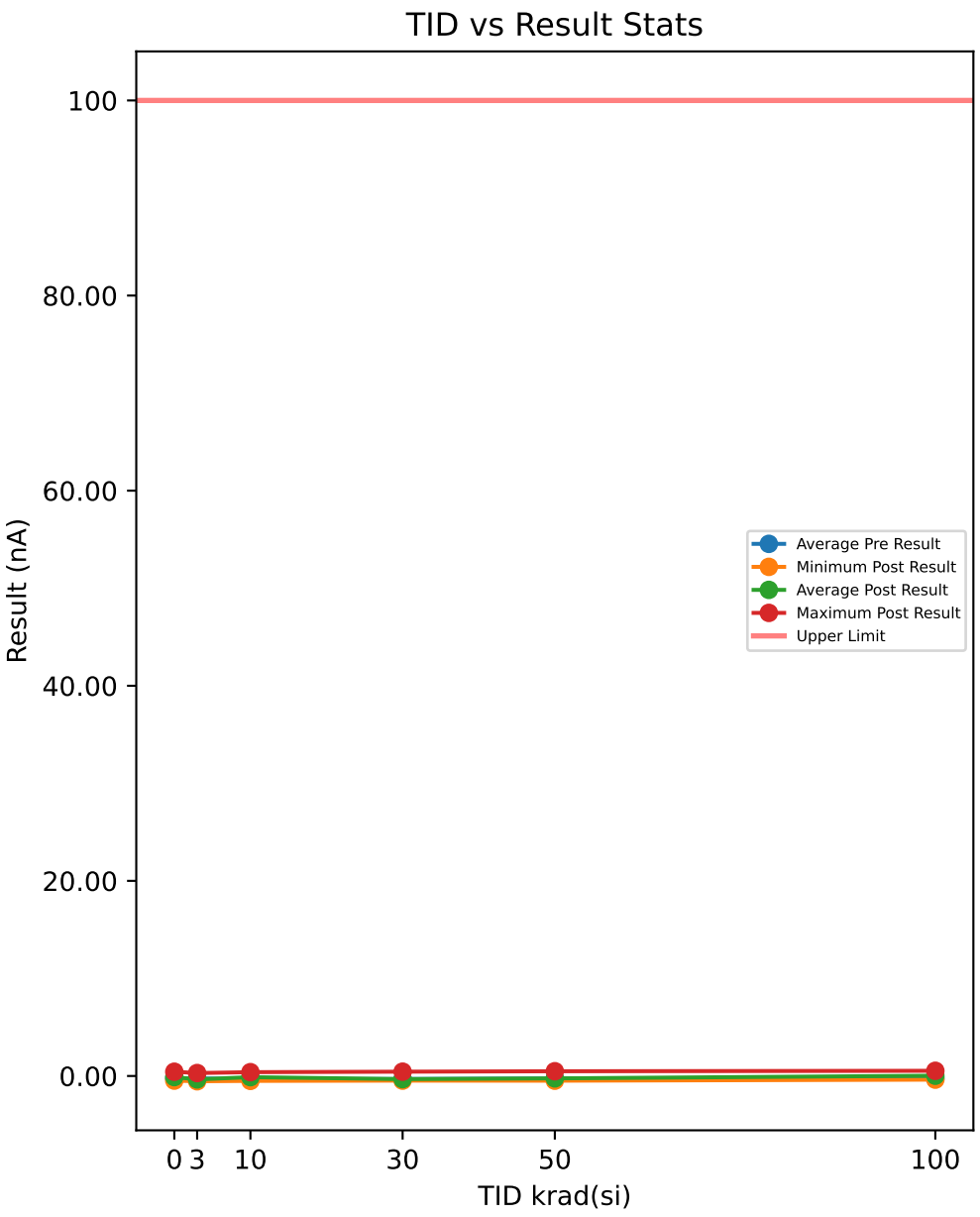
Test Results (Lower Limit = 0.48, Upper Limit = 0.55 (V))

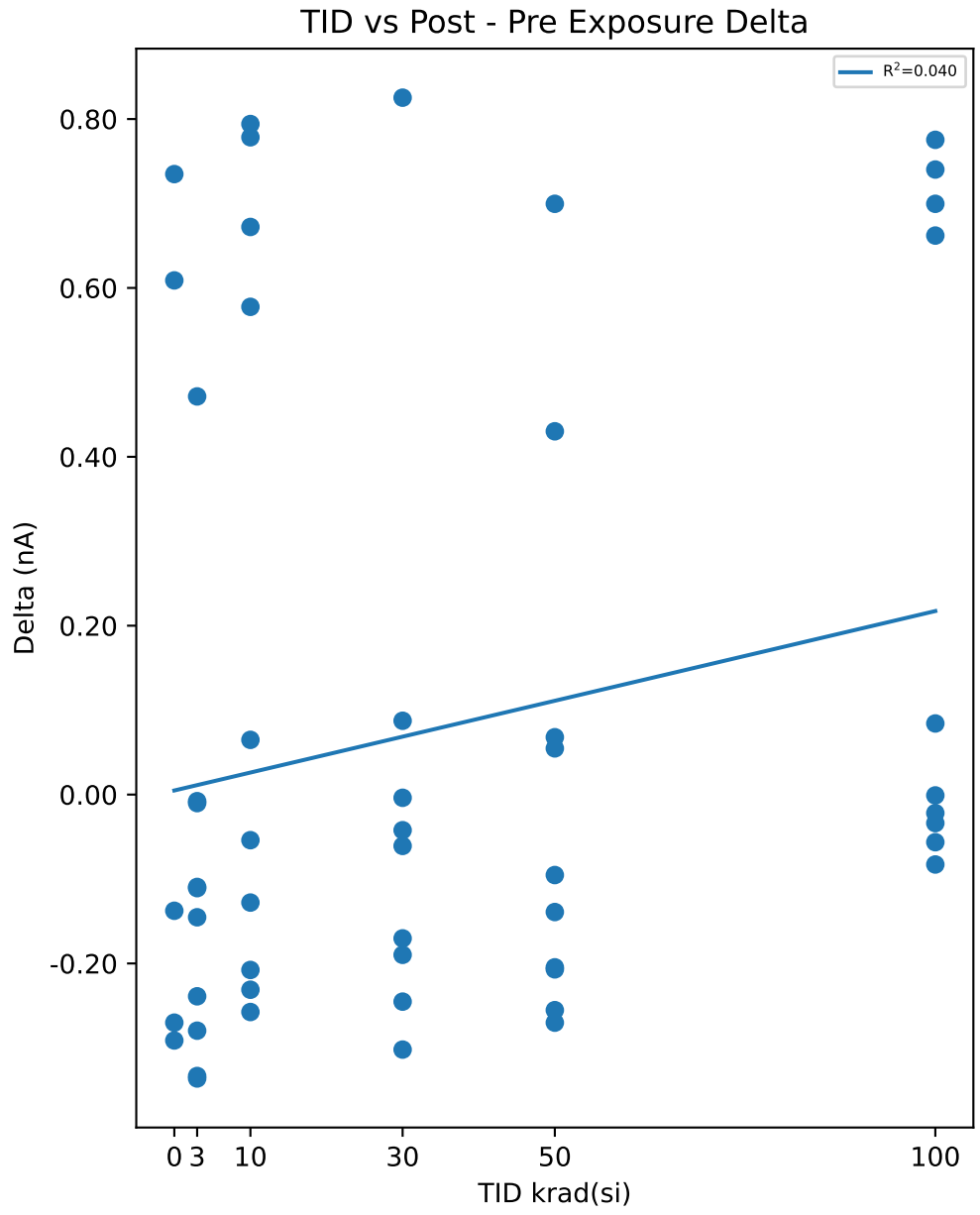
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	0.5246	0.5242	-0.0004
411	100	Unbiased	0.5248	0.5241	-0.0007
444	30	Unbiased	0.5241	0.5226	-0.0015
454	10	Unbiased	0.5254	0.5247	-0.0007
491	3	Unbiased	0.525	0.5247	-0.0003
500	100	Unbiased	0.5268	0.5262	-0.0006
534	100	Biased	0.5233	0.4992	-0.0241
558	0	Correlation	0.5228	0.5221	-0.0007
563	100	Biased	0.5256	0.504	-0.0216
570	3	Unbiased	0.5241	0.524	-0.0001
614	10	Unbiased	0.5248	0.5241	-0.0007
675	3	Biased	0.5248	0.5236	-0.0012
713	100	Unbiased	0.5269	0.5269	0
744	50	Biased	0.5229	0.5107	-0.0122
799	50	Biased	0.5255	0.5114	-0.0141
842	30	Unbiased	0.5294	0.5289	-0.0005
889	3	Unbiased	0.526	0.5262	0.0002
901	3	Biased	0.5239	0.5228	-0.0011
930	50	Unbiased	0.5245	0.5228	-0.0017
968	100	Unbiased	0.5264	0.5267	0.0003
976	100	Unbiased	0.5274	0.527	-0.0004
981	3	Biased	0.5254	0.525	-0.0004
1003	10	Biased	0.5258	0.5236	-0.0022
1039	3	Biased	0.5227	0.5214	-0.0013
1053	100	Biased	0.524	0.5033	-0.0207
1056	0	Correlation	0.5227	0.5227	0
1072	10	Biased	0.5253	0.5228	-0.0025
1095	50	Unbiased	0.5243	0.5262	0.0019
1099	0	Correlation	0.5281	0.5283	0.0002
1113	3	Biased	0.5251	0.5241	-0.001
1142	10	Unbiased	0.5234	0.5233	-0.0001
1154	10	Biased	0.5219	0.5193	-0.0026
1215	50	Unbiased	0.5242	0.5228	-0.0014
1222	100	Biased	0.5254	0.5039	-0.0215
1229	50	Unbiased	0.5229	0.5249	0.002
1255	3	Unbiased	0.5233	0.5228	-0.0005
1331	30	Unbiased	0.5242	0.5234	-0.0008
1359	30	Biased	0.5283	0.5201	-0.0082
1375	30	Unbiased	0.5214	0.5208	-0.0006
1398	30	Biased	0.5247	0.5176	-0.0071
1411	50	Biased	0.5248	0.5093	-0.0155
1465	10	Unbiased	0.5241	0.5241	0
1474	50	Biased	0.5228	0.5093	-0.0135
1504	50	Biased	0.5241	0.5106	-0.0135
1540	100	Biased	0.524	0.5033	-0.0207
1554	3	Unbiased	0.5245	0.5246	0.0001
1662	30	Biased	0.5255	0.5179	-0.0076
1679	10	Biased	0.5251	0.5215	-0.0036
1697	10	Biased	0.5215	0.5175	-0.004
1703	30	Biased	0.524	0.5154	-0.0086
1704	10	Unbiased	0.524	0.5241	0.0001
1736	30	Biased	0.5261	0.5173	-0.0088
1737	0	Correlation	0.5249	0.5249	0
1748	0	Correlation	0.5243	0.5241	-0.0002

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.5227	0.52456	0.5281	0.002195	0.5221	0.52442	0.5283	0.0024356	-0.0007	-0.00014	0.0002	0.00034351
3	0.5227	0.52448	0.526	0.00099755	0.5214	0.52392	0.5262	0.0013514	-0.0013	-0.00056	0.0002	0.00055418
10	0.5215	0.52413	0.5258	0.0014758	0.5175	0.5225	0.5247	0.0023735	-0.004	-0.00163	0.0001	0.0015363
30	0.5214	0.5253	0.5294	0.0024083	0.5154	0.52044	0.5289	0.0041083	-0.0088	-0.0048556	-0.0005	0.0038426
50	0.5228	0.52406	0.5255	0.00091068	0.5093	0.51722	0.5262	0.0074258	-0.0155	-0.00684	0.002	0.0074324
100	0.5233	0.52546	0.5274	0.0014104	0.4992	0.51446	0.527	0.012452	-0.0241	-0.011	0.0003	0.011342

Device Test: 16.13 LEAK|EN_LEAK/EN/14/14/0/0/5/500kHz//@I_EN_LEAK_1V





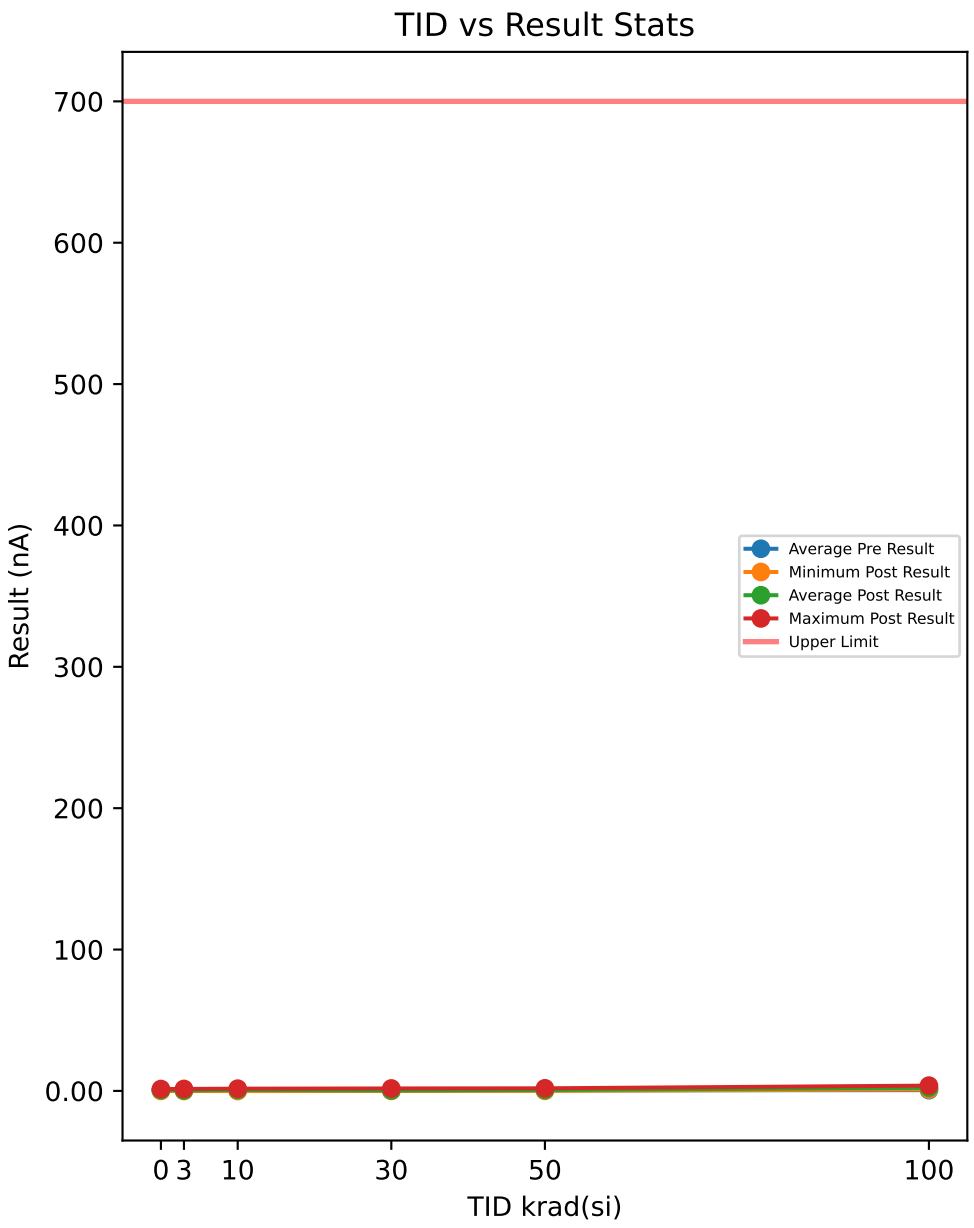
Test Results (Upper Limit = 100.0 (nA))

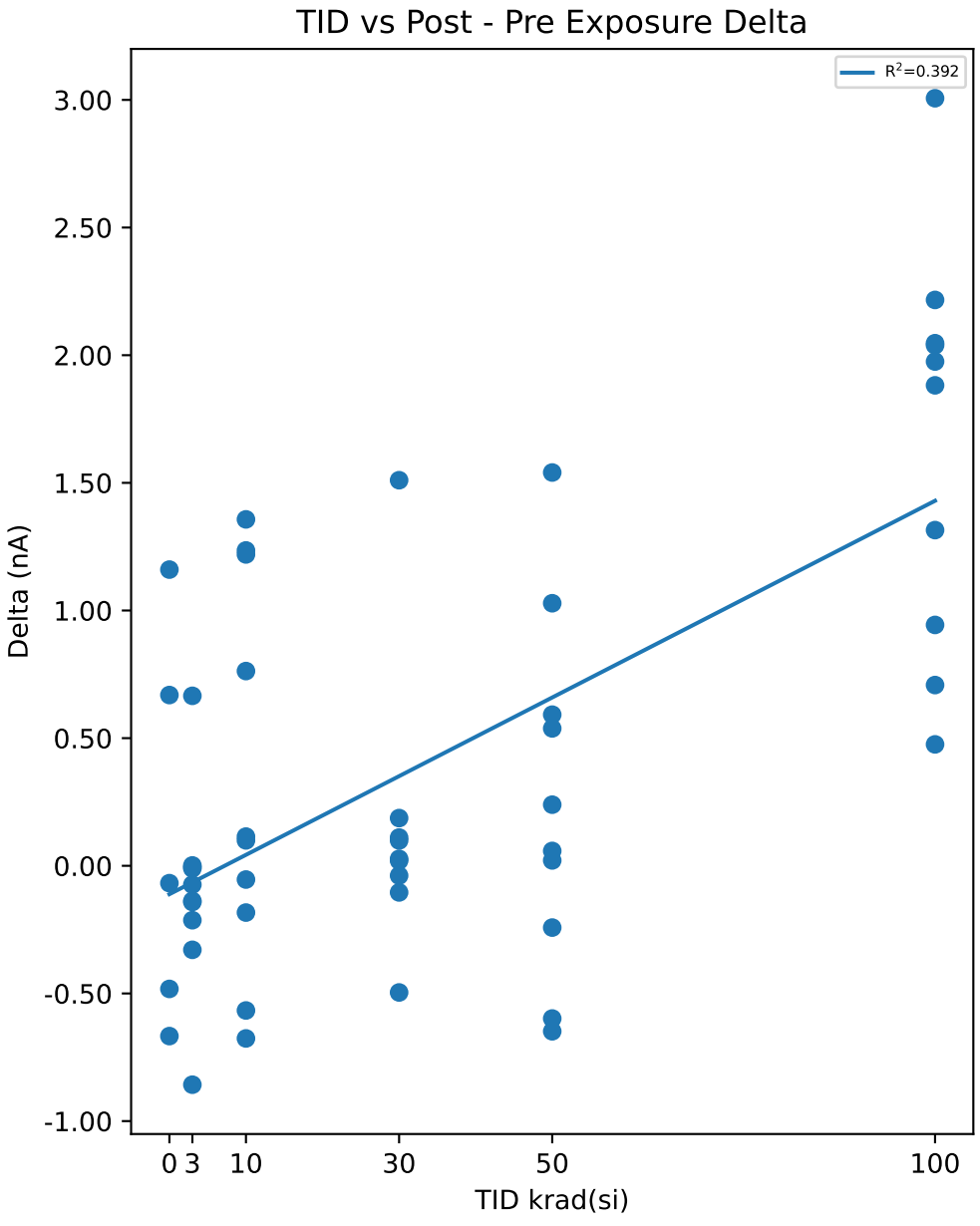
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	-0.1642	-0.3688	-0.2046
411	100	Unbiased	-0.1767	-0.2105	-0.0338
444	30	Unbiased	-0.3244	-0.3666	-0.0422
454	10	Unbiased	-0.4118	0.2604	0.6722
491	3	Unbiased	-0.1705	0.301	0.4715
500	100	Unbiased	-0.1955	0.5041	0.6996
534	100	Biased	-0.3369	0.4385	0.7754
558	0	Correlation	-0.2798	0.3291	0.6089
563	100	Biased	-0.3182	-0.234	0.0842
570	3	Unbiased	-0.2041	-0.3494	-0.1453
614	10	Unbiased	-0.1512	-0.4087	-0.2575
675	3	Biased	-0.1486	-0.4282	-0.2796
713	100	Unbiased	-0.1761	-0.198	-0.0219
744	50	Biased	-0.2142	0.4854	0.6996
799	50	Biased	-0.1792	-0.4493	-0.2701
842	30	Unbiased	-0.2267	-0.4165	-0.1898
889	3	Unbiased	-0.1419	-0.4781	-0.3362
901	3	Biased	-0.3681	-0.3759	-0.0078
930	50	Unbiased	-0.2298	-0.4368	-0.207
968	100	Unbiased	-0.208	0.5322	0.7402
976	100	Unbiased	-0.2571	-0.3135	-0.0564
981	3	Biased	-0.2384	-0.3478	-0.1094
1003	10	Biased	-0.3141	0.2635	0.5776
1039	3	Biased	-0.4274	-0.4375	-0.0101
1053	100	Biased	-0.2923	-0.3751	-0.0828
1056	0	Correlation	-0.2994	0.4354	0.7348
1072	10	Biased	-0.3744	-0.5023	-0.1279
1095	50	Unbiased	-0.1855	0.2447	0.4302
1099	0	Correlation	-0.183	-0.4742	-0.2912
1113	3	Biased	-0.2072	-0.5405	-0.3333
1142	10	Unbiased	-0.4025	0.3916	0.7941
1154	10	Biased	-0.4274	-0.3626	0.0648
1215	50	Unbiased	-0.4118	-0.3439	0.0679
1222	100	Biased	-0.3235	-0.3245	-0.001
1229	50	Unbiased	-0.2322	-0.3713	-0.1391
1255	3	Unbiased	-0.3244	-0.4352	-0.1108
1331	30	Unbiased	-0.4618	-0.3744	0.0874
1359	30	Biased	-0.3775	-0.3813	-0.0038
1375	30	Unbiased	-0.3869	-0.4477	-0.0608
1398	30	Biased	-0.3837	0.4416	0.8253
1411	50	Biased	-0.311	-0.4063	-0.0953
1465	10	Unbiased	-0.233	-0.287	-0.054
1474	50	Biased	-0.229	-0.4843	-0.2553
1504	50	Biased	-0.3869	-0.3322	0.0547
1540	100	Biased	-0.2048	0.4572	0.662
1554	3	Unbiased	-0.1792	-0.4181	-0.2389
1662	30	Biased	-0.173	-0.475	-0.302
1679	10	Biased	-0.4368	0.3416	0.7784
1697	10	Biased	-0.2135	-0.4446	-0.2311
1703	30	Biased	-0.2322	-0.4025	-0.1703
1704	10	Unbiased	-0.2486	-0.4563	-0.2077
1736	30	Biased	-0.2197	-0.4649	-0.2452
1737	0	Correlation	-0.2508	-0.3884	-0.1376
1748	0	Correlation	-0.1955	-0.4656	-0.2701

Test Statistics (nA)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.2994	-0.2417	-0.183	0.051098	-0.4742	-0.11274	0.4354	0.45465	-0.2912	0.12896	0.7348	0.50105
3	-0.4274	-0.24098	-0.1419	0.098609	-0.5405	-0.35097	0.301	0.23637	-0.3362	-0.10999	0.4715	0.23716
10	-0.4368	-0.32133	-0.1512	0.10322	-0.5023	-0.12044	0.3916	0.38025	-0.2575	0.20089	0.7941	0.4478
30	-0.4618	-0.30954	-0.173	0.099414	-0.475	-0.32081	0.4416	0.28861	-0.302	-0.011267	0.8253	0.33717
50	-0.4118	-0.25438	-0.1642	0.086559	-0.4843	-0.24628	0.4854	0.33061	-0.2701	0.0081	0.6996	0.32193
100	-0.3369	-0.24891	-0.1761	0.064156	-0.3751	0.02764	0.5322	0.39631	-0.0828	0.27655	0.7754	0.38453

Device Test: 16.14 LEAK|EN_LEAK/EN/14/14/0/0/5/500kHz//@I_EN_LEAK





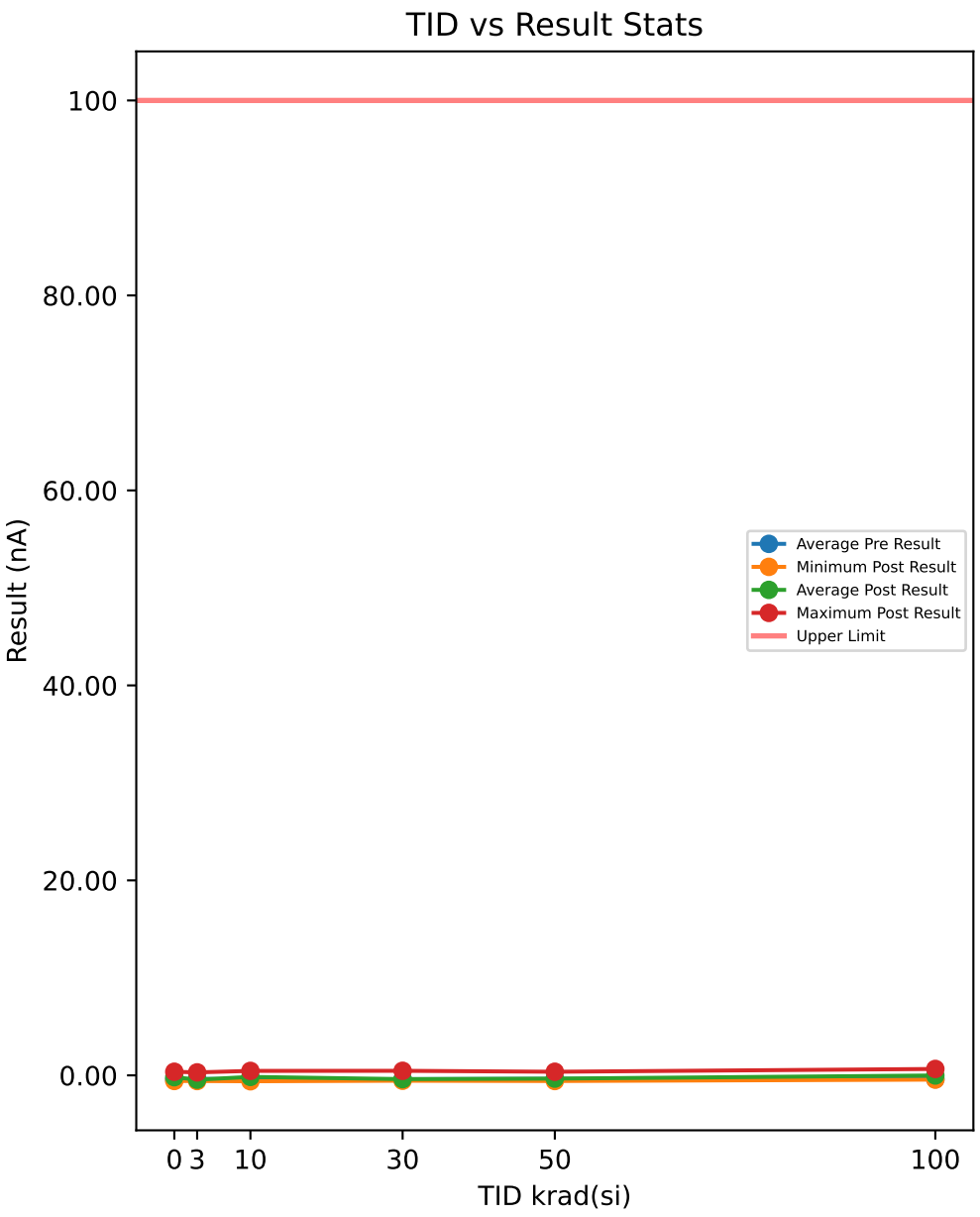
Test Results (Upper Limit = 700.0 (nA))

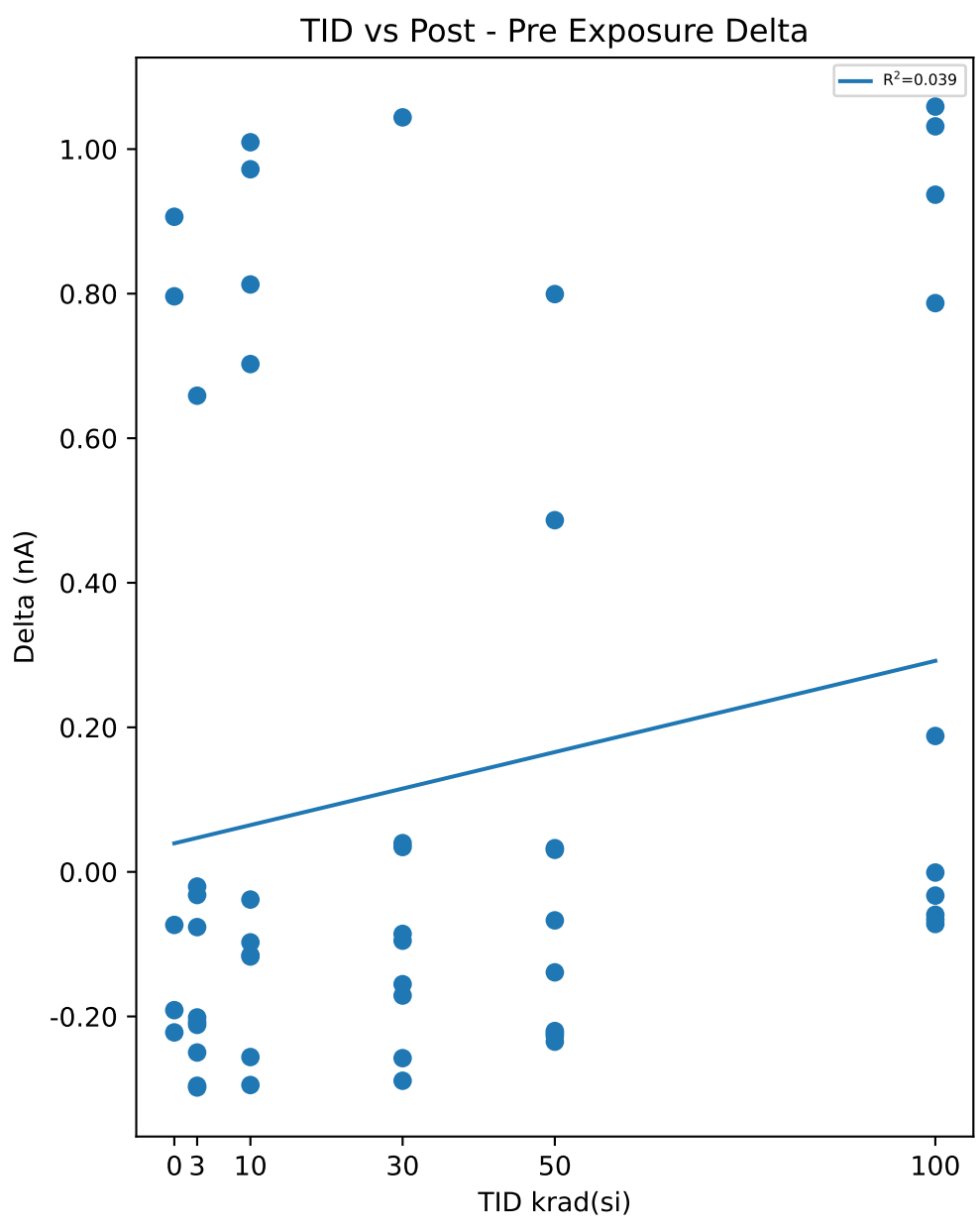
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	0.6383	0.0401	-0.5982
411	100	Unbiased	0.8476	2.7296	1.882
444	30	Unbiased	-0.0278	-0.0076	0.0202
454	10	Unbiased	0.1689	1.3885	1.2196
491	3	Unbiased	0.7258	1.3916	0.6658
500	100	Unbiased	0.6633	2.6385	1.9752
534	100	Biased	0.1095	2.326	2.2165
558	0	Correlation	0.6633	1.3322	0.6689
563	100	Biased	0.3031	1.0111	0.708
570	3	Unbiased	0.1727	0.1623	-0.0104
614	10	Unbiased	0.1571	0.2715	0.1144
675	3	Biased	0.782	-0.0754	-0.8574
713	100	Unbiased	0.2318	1.5467	1.3149
744	50	Biased	0.8101	1.8385	1.0284
799	50	Biased	0.1509	0.2091	0.0582
842	30	Unbiased	0.5977	0.1016	-0.4961
889	3	Unbiased	0.2412	-0.0879	-0.3291
901	3	Biased	0.3999	0.395	-0.0049
930	50	Unbiased	0.6009	0.3589	-0.242
968	100	Unbiased	0.7351	3.7416	3.0065
976	100	Unbiased	0.2287	1.1722	0.9435
981	3	Biased	0.4	0.3263	-0.0737
1003	10	Biased	0.8257	1.5885	0.7628
1039	3	Biased	0.8963	0.6832	-0.2131
1053	100	Biased	0.7102	1.1858	0.4756
1056	0	Correlation	0.1751	1.3353	1.1602
1072	10	Biased	0.2251	0.3246	0.0995
1095	50	Unbiased	0.1042	1.6447	1.5405
1099	0	Correlation	0.5884	0.1062	-0.4822
1113	3	Biased	0.2287	0.0869	-0.1418
1142	10	Unbiased	0.1345	1.3697	1.2352
1154	10	Biased	0.019	-0.0348	-0.0538
1215	50	Unbiased	0.0658	0.0869	0.0211
1222	100	Biased	0.8538	2.8927	2.0389
1229	50	Unbiased	0.2007	0.7927	0.592
1255	3	Unbiased	0.1127	0.1141	0.0014
1331	30	Unbiased	0.2157	0.4026	0.1869
1359	30	Biased	0.3343	0.4334	0.0991
1375	30	Unbiased	0.0315	0.1422	0.1107
1398	30	Biased	0.2282	1.7385	1.5103
1411	50	Biased	0.6914	0.0432	-0.6482
1465	10	Unbiased	0.9038	0.3371	-0.5667
1474	50	Biased	0.3595	0.5989	0.2394
1504	50	Biased	0.3936	0.9318	0.5382
1540	100	Biased	0.7008	2.7478	2.047
1554	3	Unbiased	0.5495	0.412	-0.1375
1662	30	Biased	0.2412	0.1369	-0.1043
1679	10	Biased	0.0409	1.3978	1.3569
1697	10	Biased	0.2349	0.0517	-0.1832
1703	30	Biased	0.1976	0.1592	-0.0384
1704	10	Unbiased	0.5977	-0.0785	-0.6762
1736	30	Biased	0.1851	0.2123	0.0272
1737	0	Correlation	0.1602	0.0922	-0.068
1748	0	Correlation	0.6696	0.0026	-0.667

Test Statistics (nA)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.1602	0.45132	0.6696	0.26097	0.0026	0.5737	1.3353	0.69497	-0.667	0.12238	1.1602	0.7747
3	0.1127	0.45088	0.8963	0.2756	-0.0879	0.34081	1.3916	0.43898	-0.8574	-0.11007	0.6658	0.37351
10	0.019	0.33076	0.9038	0.32336	-0.0785	0.66161	1.5885	0.68367	-0.6762	0.33085	1.3569	0.75861
30	-0.0278	0.22261	0.5977	0.17848	-0.0076	0.36879	1.7385	0.53245	-0.4961	0.14618	1.5103	0.54833
50	0.0658	0.40154	0.8101	0.26933	0.0401	0.65448	1.8385	0.65324	-0.6482	0.25294	1.5405	0.69353
100	0.1095	0.53839	0.8538	0.28568	1.0111	2.1992	3.7416	0.91714	0.4756	1.6608	3.0065	0.78218

Device Test: 16.15 LEAK|EN_LEAK/EN/14/14/0/1000/5/500kHz//@I_EN_LEAK_1V





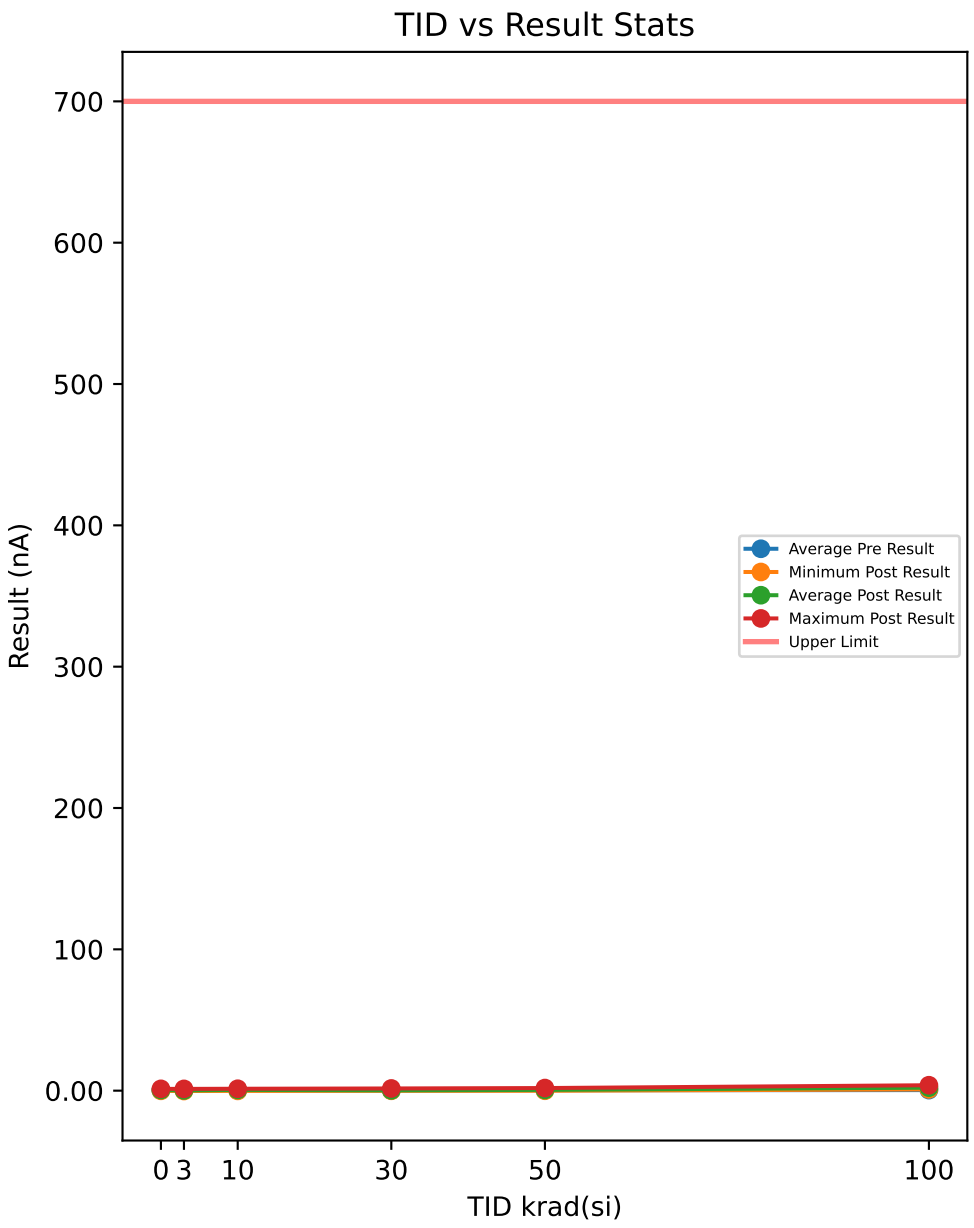
Test Results (Upper Limit = 100.0 (nA))

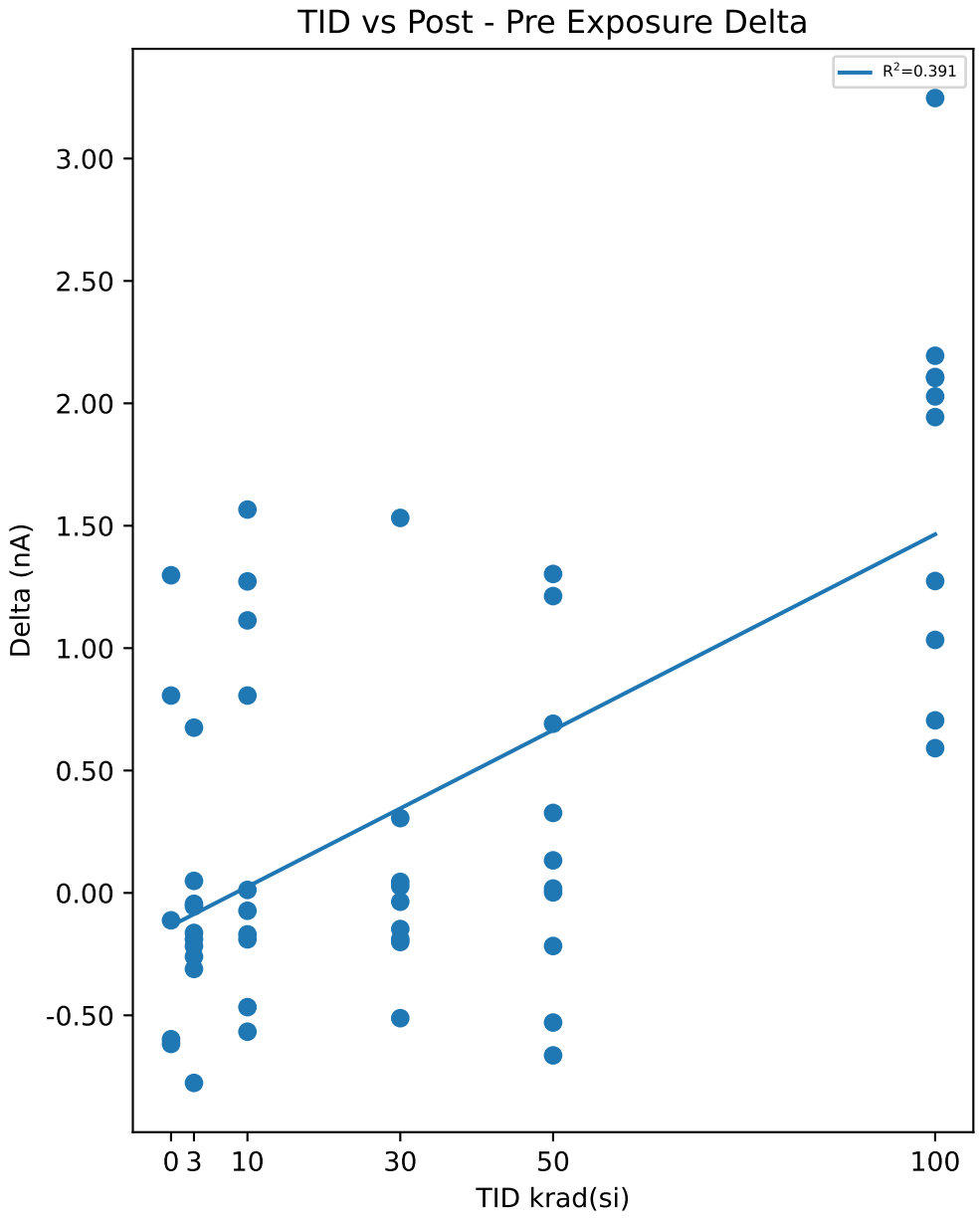
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	-0.3922	-0.5312	-0.139
411	100	Unbiased	-0.4703	-0.2823	0.188
444	30	Unbiased	-0.4649	-0.5507	-0.0858
454	10	Unbiased	-0.5117	0.301	0.8127
491	3	Unbiased	-0.3547	0.3041	0.6588
500	100	Unbiased	-0.4359	0.501	0.9369
534	100	Biased	-0.468	0.5635	1.0315
558	0	Correlation	-0.4266	0.3697	0.7963
563	100	Biased	-0.3775	-0.4368	-0.0593
570	3	Unbiased	-0.2633	-0.5616	-0.2983
614	10	Unbiased	-0.1481	-0.443	-0.2949
675	3	Biased	-0.3797	-0.5811	-0.2014
713	100	Unbiased	-0.2415	-0.3073	-0.0658
744	50	Biased	-0.4547	0.3447	0.7994
799	50	Biased	-0.2944	-0.5179	-0.2235
842	30	Unbiased	-0.3173	-0.4727	-0.1554
889	3	Unbiased	-0.2508	-0.4625	-0.2117
901	3	Biased	-0.4181	-0.4945	-0.0764
930	50	Unbiased	-0.3454	-0.5803	-0.2349
968	100	Unbiased	-0.4016	0.6572	1.0588
976	100	Unbiased	-0.2508	-0.3229	-0.0721
981	3	Biased	-0.254	-0.5039	-0.2499
1003	10	Biased	-0.4016	0.301	0.7026
1039	3	Biased	-0.4992	-0.5312	-0.032
1053	100	Biased	-0.386	-0.4188	-0.0328
1056	0	Correlation	-0.6023	0.3041	0.9064
1072	10	Biased	-0.4899	-0.6053	-0.1154
1095	50	Unbiased	-0.1169	0.3697	0.4866
1099	0	Correlation	-0.3547	-0.546	-0.1913
1113	3	Biased	-0.2322	-0.5281	-0.2959
1142	10	Unbiased	-0.5929	0.4166	1.0095
1154	10	Biased	-0.4618	-0.5593	-0.0975
1215	50	Unbiased	-0.518	-0.4875	0.0305
1222	100	Biased	-0.4359	-0.4368	-0.0009
1229	50	Unbiased	-0.2384	-0.4586	-0.2202
1255	3	Unbiased	-0.5367	-0.557	-0.0203
1331	30	Unbiased	-0.5086	-0.4742	0.0344
1359	30	Biased	-0.4711	-0.4313	0.0398
1375	30	Unbiased	-0.4181	-0.5133	-0.0952
1398	30	Biased	-0.5773	0.4666	1.0439
1411	50	Biased	-0.4672	-0.5343	-0.0671
1465	10	Unbiased	-0.4141	-0.4524	-0.0383
1474	50	Biased	-0.2477	-0.475	-0.2273
1504	50	Biased	-0.5024	-0.4696	0.0328
1540	100	Biased	-0.4297	0.3572	0.7869
1554	3	Unbiased	-0.2976	-0.5054	-0.2078
1662	30	Biased	-0.2789	-0.45	-0.1711
1679	10	Biased	-0.5149	0.4572	0.9721
1697	10	Biased	-0.2477	-0.5039	-0.2562
1703	30	Biased	-0.2477	-0.5367	-0.289
1704	10	Unbiased	-0.3735	-0.4906	-0.1171
1736	30	Biased	-0.2477	-0.5054	-0.2577
1737	0	Correlation	-0.3536	-0.5757	-0.2221
1748	0	Correlation	-0.4141	-0.4875	-0.0734

Test Statistics (nA)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.6023	-0.43026	-0.3536	0.10181	-0.5757	-0.18708	0.3697	0.47994	-0.2221	0.24318	0.9064	0.5593
3	-0.5367	-0.34863	-0.2322	0.10844	-0.5811	-0.44212	0.3041	0.26456	-0.2983	-0.09349	0.6588	0.28312
10	-0.5929	-0.41562	-0.1481	0.13329	-0.6053	-0.15787	0.4572	0.45817	-0.2949	0.25775	1.0095	0.54206
30	-0.5773	-0.3924	-0.2477	0.12258	-0.5507	-0.3853	0.4666	0.32184	-0.289	0.0071	1.0439	0.40494
50	-0.518	-0.35773	-0.1169	0.13237	-0.5803	-0.334	0.3697	0.36616	-0.2349	0.02373	0.7994	0.34981
100	-0.4703	-0.38972	-0.2415	0.081688	-0.4368	-0.0126	0.6572	0.46688	-0.0721	0.37712	1.0588	0.50655

Device Test: 16.16 LEAK|EN_LEAK/EN/14/14/0/1000/5/500kHz//@I_EN_LEAK





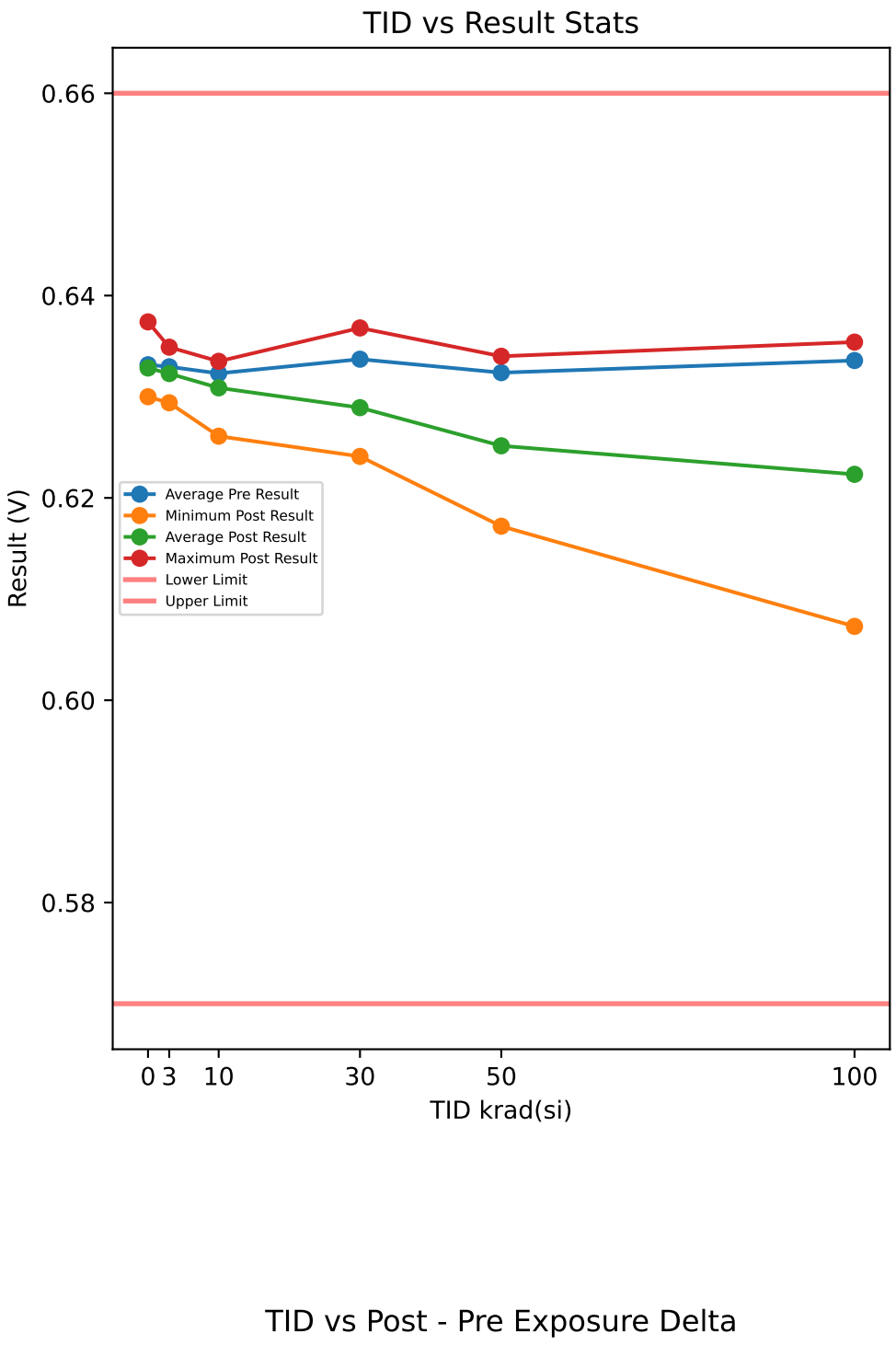
Test Results (Upper Limit = 700.0 (nA))

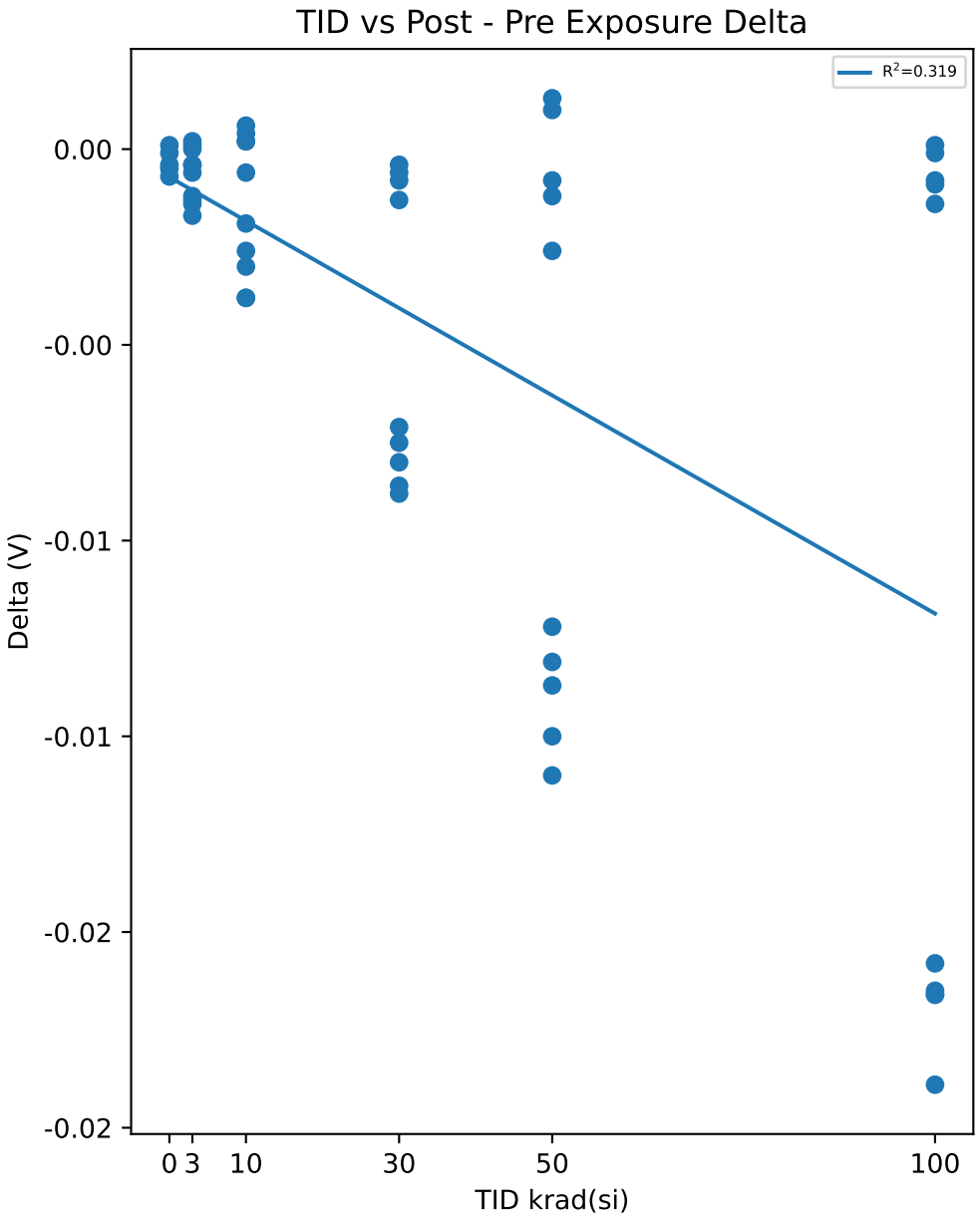
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	0.4572	-0.0723	-0.5295
411	100	Unbiased	0.5884	2.6921	2.1037
444	30	Unbiased	-0.1465	-0.1013	0.0452
454	10	Unbiased	0.1064	1.2197	1.1133
491	3	Unbiased	0.5759	1.251	0.6751
500	100	Unbiased	0.5634	2.5072	1.9438
534	100	Biased	-0.0153	2.1791	2.1944
558	0	Correlation	0.4728	1.2791	0.8063
563	100	Biased	0.1689	0.8738	0.7049
570	3	Unbiased	0.073	-0.0904	-0.1634
614	10	Unbiased	0.126	0.0531	-0.0729
675	3	Biased	0.5134	-0.2627	-0.7761
713	100	Unbiased	0.1602	1.4343	1.2741
744	50	Biased	0.6415	1.8541	1.2126
799	50	Biased	0.0917	0.0937	0.002
842	30	Unbiased	0.5103	-0.0014	-0.5117
889	3	Unbiased	0.1291	-0.1815	-0.3106
901	3	Biased	0.2875	0.2327	-0.0548
930	50	Unbiased	0.4541	0.2372	-0.2169
968	100	Unbiased	0.5977	3.8447	3.247
976	100	Unbiased	0.0886	1.1222	1.0336
981	3	Biased	0.3875	0.1703	-0.2172
1003	10	Biased	0.5447	1.351	0.8063
1039	3	Biased	0.6028	0.5583	-0.0445
1053	100	Biased	0.4322	1.0234	0.5912
1056	0	Correlation	-0.0185	1.2791	1.2976
1072	10	Biased	0.172	0.1842	0.0122
1095	50	Unbiased	0.1073	1.4103	1.303
1099	0	Correlation	0.4884	-0.1092	-0.5976
1113	3	Biased	0.2256	-0.0348	-0.2604
1142	10	Unbiased	-0.006	1.2666	1.2726
1154	10	Biased	0.0034	-0.1659	-0.1693
1215	50	Unbiased	0.0252	0.0432	0.018
1222	100	Biased	0.7414	2.849	2.1076
1229	50	Unbiased	0.2131	0.5399	0.3268
1255	3	Unbiased	0.0877	-0.1013	-0.189
1331	30	Unbiased	0.0377	0.3433	0.3056
1359	30	Biased	0.3	0.3273	0.0273
1375	30	Unbiased	0.0065	-0.0295	-0.036
1398	30	Biased	0.0284	1.5603	1.5319
1411	50	Biased	0.5977	-0.066	-0.6637
1465	10	Unbiased	0.6383	0.1717	-0.4666
1474	50	Biased	0.2817	0.4147	0.133
1504	50	Biased	0.1595	0.8507	0.6912
1540	100	Biased	0.579	2.6072	2.0282
1554	3	Unbiased	0.3097	0.3589	0.0492
1662	30	Biased	0.2318	0.0432	-0.1886
1679	10	Biased	-0.212	1.3541	1.5661
1697	10	Biased	0.1602	-0.0295	-0.1897
1703	30	Biased	0.2318	0.0313	-0.2005
1704	10	Unbiased	0.4728	-0.0941	-0.5669
1736	30	Biased	0.2225	0.075	-0.1475
1737	0	Correlation	0.0419	-0.0701	-0.112
1748	0	Correlation	0.4978	-0.1191	-0.6169

Test Statistics (nA)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.0185	0.29648	0.4978	0.261	-0.1191	0.45196	1.2791	0.75529	-0.6169	0.15548	1.2976	0.8607
3	0.073	0.31922	0.6028	0.19689	-0.2627	0.19005	1.251	0.45327	-0.7761	-0.12917	0.6751	0.36094
10	-0.212	0.20058	0.6383	0.26932	-0.1659	0.53109	1.3541	0.66946	-0.5669	0.33051	1.5661	0.78021
30	-0.1465	0.15806	0.5103	0.19566	-0.1013	0.2498	1.5603	0.51448	-0.5117	0.091744	1.5319	0.58393
50	0.0252	0.3029	0.6415	0.22043	-0.0723	0.53055	1.8541	0.65621	-0.6637	0.22765	1.303	0.66837
100	-0.0153	0.39045	0.7414	0.26465	0.8738	2.1133	3.8447	0.96868	0.5912	1.7228	3.247	0.81471

Device Test: 16.17 LEVEL|EN_RISE/EN/8/8/0/0/5/500kHz//@V_EN_RISE





Test Results (Lower Limit = 0.57, Upper Limit = 0.66 (V))

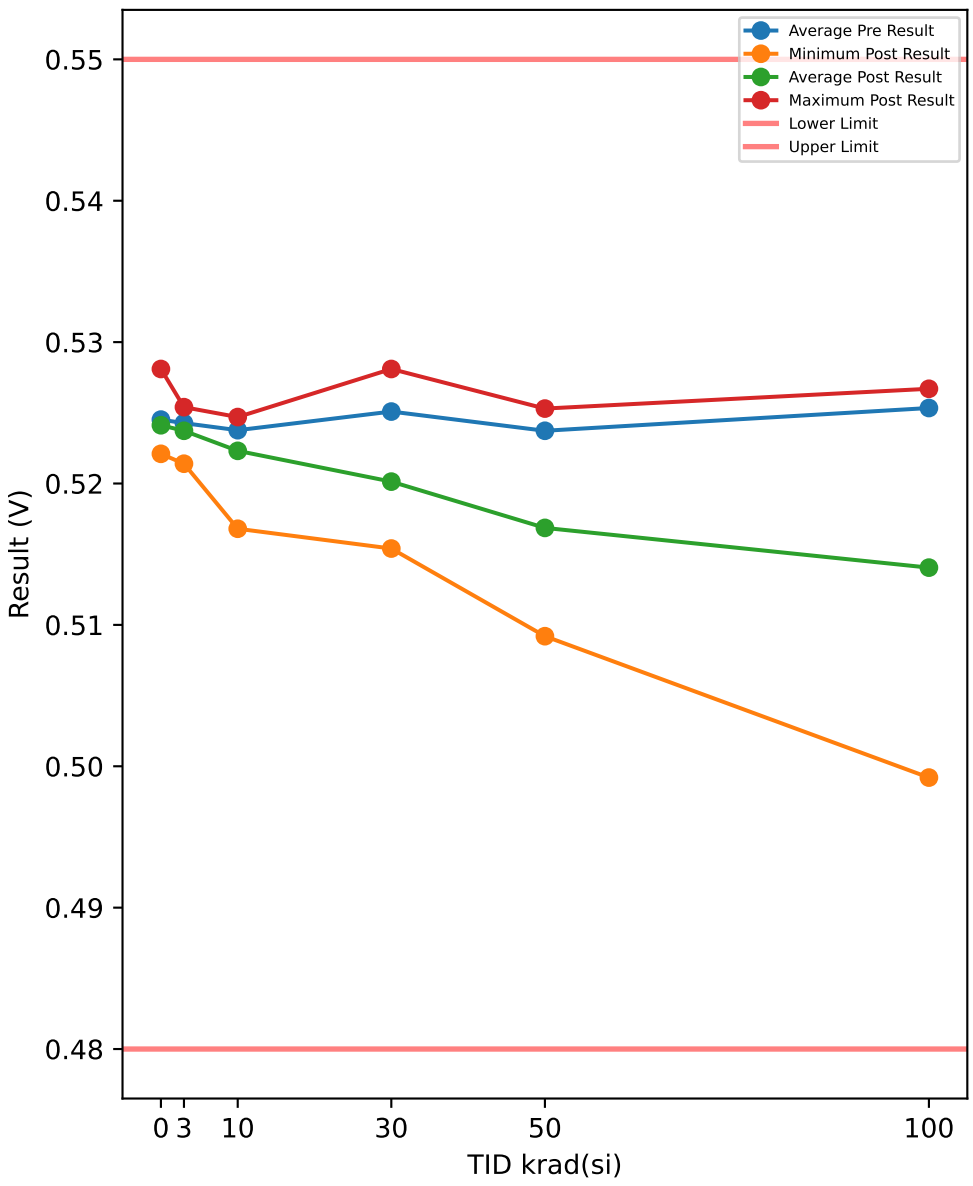
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	0.6332	0.632	-0.0012
411	100	Unbiased	0.6327	0.6318	-0.0009
444	30	Unbiased	0.6326	0.6313	-0.0013
454	10	Unbiased	0.6333	0.6335	0.0002
491	3	Unbiased	0.6332	0.6328	-0.0004
500	100	Unbiased	0.6353	0.6345	-0.0008
534	100	Biased	0.6312	0.6073	-0.0239
558	0	Correlation	0.6304	0.63	-0.0004
563	100	Biased	0.6333	0.6117	-0.0216
570	3	Unbiased	0.6327	0.6328	0.0001
614	10	Unbiased	0.6327	0.6321	-0.0006
675	3	Biased	0.6332	0.6315	-0.0017
713	100	Unbiased	0.6355	0.6354	-0.0001
744	50	Biased	0.6307	0.6185	-0.0122
799	50	Biased	0.6341	0.6191	-0.015
842	30	Unbiased	0.6374	0.6368	-0.0006
889	3	Unbiased	0.6355	0.6349	-0.0006
901	3	Biased	0.6318	0.6314	-0.0004
930	50	Unbiased	0.6333	0.6307	-0.0026
968	100	Unbiased	0.6347	0.6348	0.0001
976	100	Unbiased	0.6354	0.634	-0.0014
981	3	Biased	0.634	0.6327	-0.0013
1003	10	Biased	0.6339	0.6313	-0.0026
1039	3	Biased	0.6306	0.6294	-0.0012
1053	100	Biased	0.6318	0.6102	-0.0216
1056	0	Correlation	0.6313	0.6308	-0.0005
1072	10	Biased	0.6342	0.6312	-0.003
1095	50	Unbiased	0.6327	0.634	0.0013
1099	0	Correlation	0.6373	0.6374	0.0001
1113	3	Biased	0.634	0.6326	-0.0014
1142	10	Unbiased	0.6315	0.6319	0.0004
1154	10	Biased	0.6306	0.6287	-0.0019
1215	50	Unbiased	0.632	0.6312	-0.0008
1222	100	Biased	0.6333	0.6118	-0.0215
1229	50	Unbiased	0.6314	0.6324	0.001
1255	3	Unbiased	0.6312	0.6314	0.0002
1331	30	Unbiased	0.6326	0.6322	-0.0004
1359	30	Biased	0.636	0.628	-0.008
1375	30	Unbiased	0.6301	0.6293	-0.0008
1398	30	Biased	0.6333	0.6262	-0.0071
1411	50	Biased	0.6332	0.6172	-0.016
1465	10	Unbiased	0.6319	0.6321	0.0002
1474	50	Biased	0.6314	0.6177	-0.0137
1504	50	Biased	0.6318	0.6187	-0.0131
1540	100	Biased	0.6326	0.6118	-0.0208
1554	3	Unbiased	0.6334	0.6334	0
1662	30	Biased	0.634	0.6265	-0.0075
1679	10	Biased	0.6332	0.6294	-0.0038
1697	10	Biased	0.6299	0.6261	-0.0038
1703	30	Biased	0.6327	0.6241	-0.0086
1704	10	Unbiased	0.6319	0.6325	0.0006
1736	30	Biased	0.6347	0.6259	-0.0088
1737	0	Correlation	0.6341	0.634	-0.0001
1748	0	Correlation	0.6327	0.632	-0.0007

Test Statistics (V)

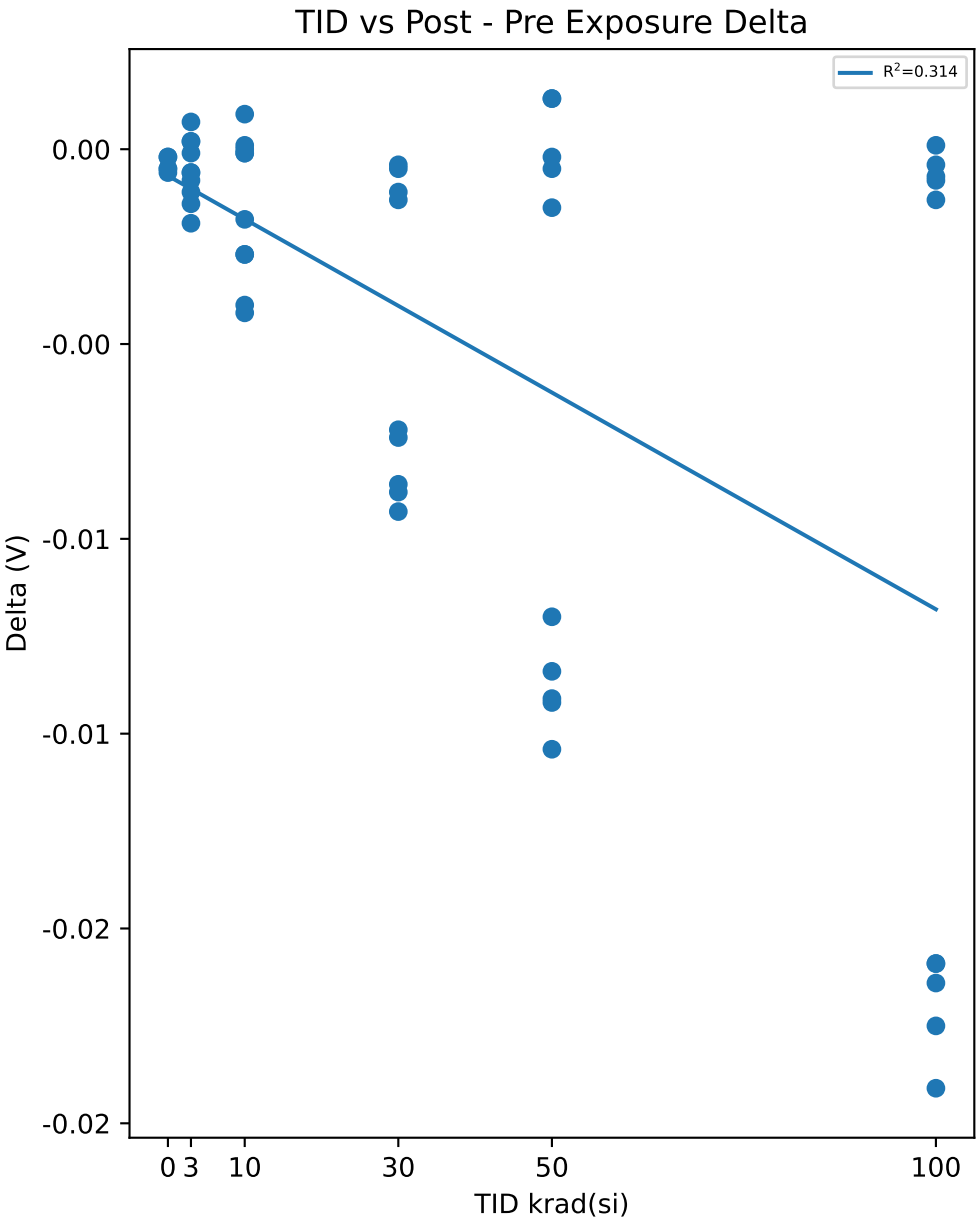
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.6304	0.63316	0.6373	0.002707	0.63	0.63284	0.6374	0.0029611	-0.0007	-0.00032	0.0001	0.00031937
3	0.6306	0.63296	0.6355	0.0014531	0.6294	0.63229	0.6349	0.0014678	-0.0017	-0.00067	0.0002	0.00068484
10	0.6299	0.63231	0.6342	0.0014043	0.6261	0.63088	0.6335	0.0022004	-0.0038	-0.00143	0.0006	0.0017876
30	0.6301	0.63371	0.6374	0.0021392	0.6241	0.62892	0.6368	0.0039547	-0.0088	-0.0047889	-0.0004	0.0038488
50	0.6307	0.63238	0.6341	0.0010789	0.6172	0.62515	0.634	0.0073511	-0.016	-0.00723	0.0013	0.0072873
100	0.6312	0.63358	0.6355	0.0015612	0.6073	0.62233	0.6354	0.012508	-0.0239	-0.01125	0.0001	0.01124

Device Test: 16.18 LEVEL|EN_FALL/EN/8/8/0/0/5/500kHz//@V_EN_FALL

TID vs Result Stats



TID vs Post - Pre Exposure Delta



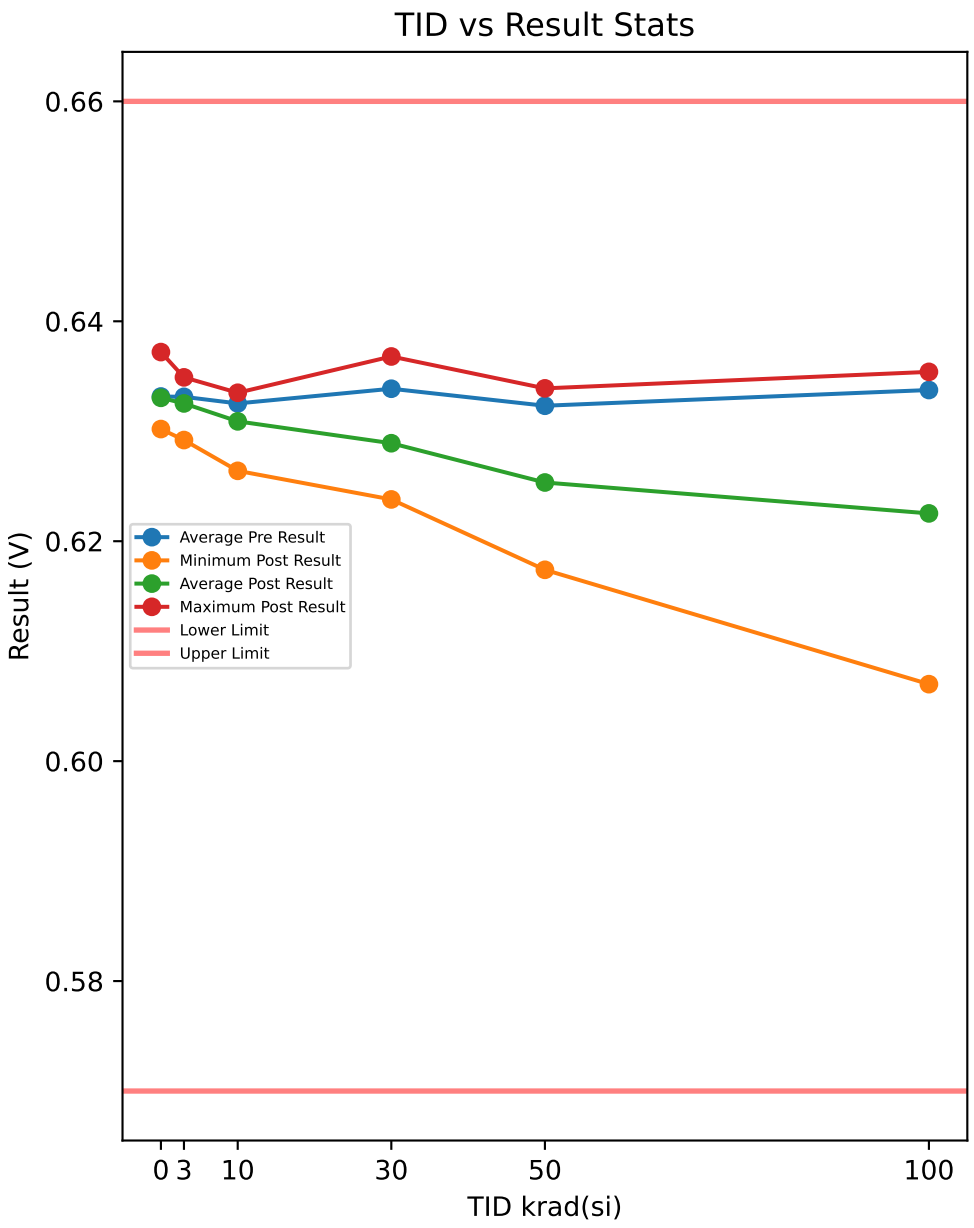
Test Results (Lower Limit = 0.48, Upper Limit = 0.55 (V))

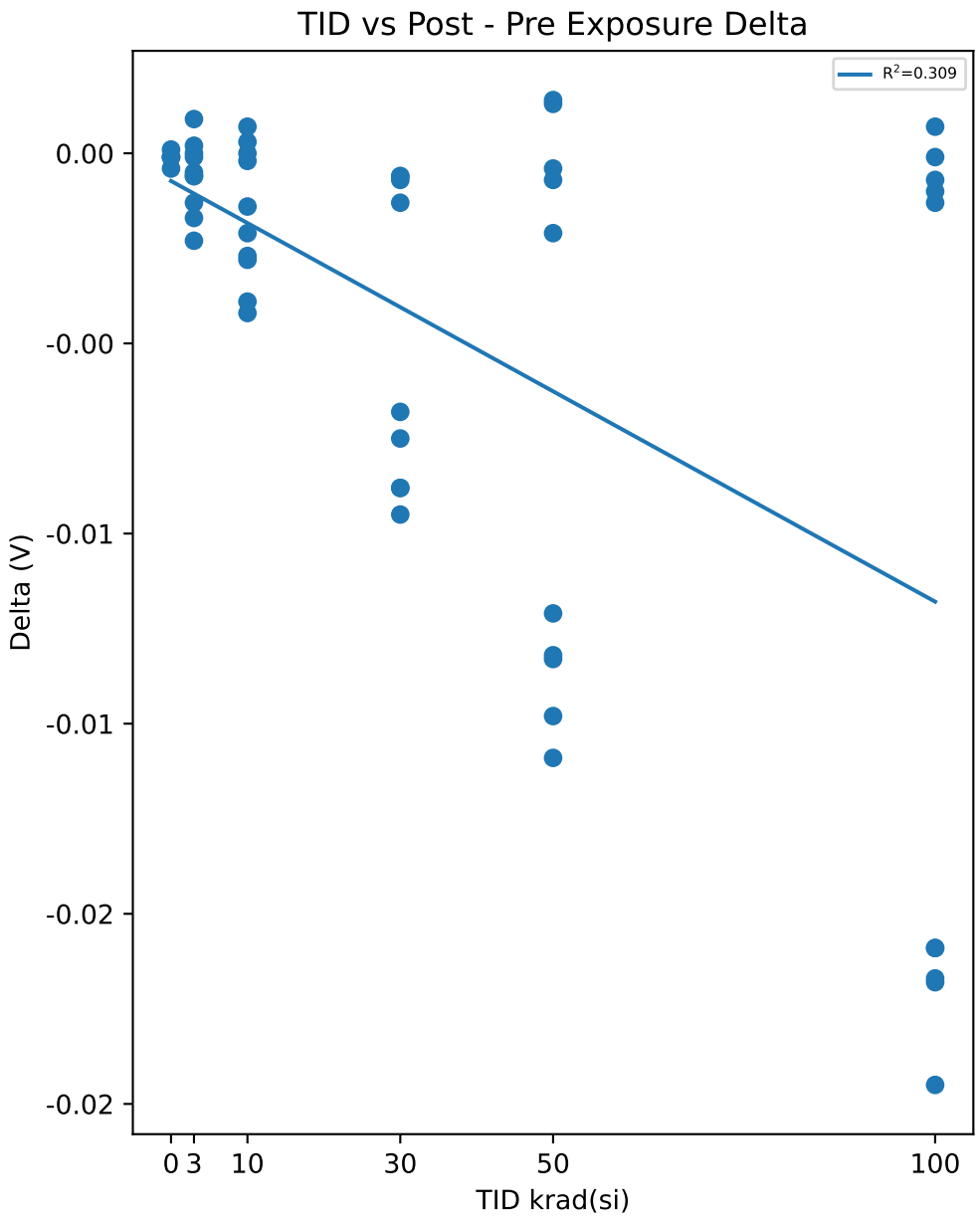
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	0.5243	0.5241	-0.0002
411	100	Unbiased	0.5248	0.524	-0.0008
444	30	Unbiased	0.5232	0.5221	-0.0011
454	10	Unbiased	0.5248	0.5247	-0.0001
491	3	Unbiased	0.5249	0.5248	-0.0001
500	100	Unbiased	0.5268	0.5255	-0.0013
534	100	Biased	0.5233	0.4992	-0.0241
558	0	Correlation	0.5226	0.5221	-0.0005
563	100	Biased	0.5247	0.5038	-0.0209
570	3	Unbiased	0.5234	0.5241	0.0007
614	10	Unbiased	0.5241	0.5241	0
675	3	Biased	0.5246	0.5227	-0.0019
713	100	Unbiased	0.5268	0.5264	-0.0004
744	50	Biased	0.5228	0.5108	-0.012
799	50	Biased	0.5246	0.5105	-0.0141
842	30	Unbiased	0.5286	0.5281	-0.0005
889	3	Unbiased	0.526	0.5254	-0.0006
901	3	Biased	0.5234	0.5223	-0.0011
930	50	Unbiased	0.5243	0.5228	-0.0015
968	100	Unbiased	0.5261	0.5262	0.0001
976	100	Unbiased	0.5274	0.5267	-0.0007
981	3	Biased	0.5255	0.5247	-0.0008
1003	10	Biased	0.5254	0.5227	-0.0027
1039	3	Biased	0.5228	0.5214	-0.0014
1053	100	Biased	0.524	0.5026	-0.0214
1056	0	Correlation	0.5227	0.5221	-0.0006
1072	10	Biased	0.5247	0.5229	-0.0018
1095	50	Unbiased	0.524	0.5253	0.0013
1099	0	Correlation	0.5283	0.5281	-0.0002
1113	3	Biased	0.5248	0.5242	-0.0006
1142	10	Unbiased	0.5227	0.5236	0.0009
1154	10	Biased	0.5221	0.5194	-0.0027
1215	50	Unbiased	0.5232	0.5227	-0.0005
1222	100	Biased	0.5255	0.503	-0.0225
1229	50	Unbiased	0.5228	0.5241	0.0013
1255	3	Unbiased	0.5227	0.5229	0.0002
1331	30	Unbiased	0.5241	0.5228	-0.0013
1359	30	Biased	0.5282	0.5194	-0.0088
1375	30	Unbiased	0.5214	0.521	-0.0004
1398	30	Biased	0.5247	0.5175	-0.0072
1411	50	Biased	0.5246	0.5092	-0.0154
1465	10	Unbiased	0.5241	0.524	-0.0001
1474	50	Biased	0.5226	0.5092	-0.0134
1504	50	Biased	0.5241	0.5099	-0.0142
1540	100	Biased	0.524	0.5031	-0.0209
1554	3	Unbiased	0.5246	0.5248	0.0002
1662	30	Biased	0.5255	0.5181	-0.0074
1679	10	Biased	0.5249	0.5207	-0.0042
1697	10	Biased	0.5208	0.5168	-0.004
1703	30	Biased	0.524	0.5154	-0.0086
1704	10	Unbiased	0.5241	0.5242	0.0001
1736	30	Biased	0.5261	0.5168	-0.0093
1737	0	Correlation	0.5249	0.5247	-0.0002
1748	0	Correlation	0.5241	0.5236	-0.0005

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.5226	0.52452	0.5283	0.0023242	0.5221	0.52412	0.5281	0.0024803	-0.0006	-0.0004	-0.0002	0.00018708
3	0.5227	0.52427	0.526	0.0011324	0.5214	0.52373	0.5254	0.0013166	-0.0019	-0.00054	0.0007	0.00080305
10	0.5208	0.52377	0.5254	0.0014507	0.5168	0.52231	0.5247	0.0025588	-0.0042	-0.00146	0.0009	0.0018554
30	0.5214	0.52509	0.5286	0.00231	0.5154	0.52013	0.5281	0.0038781	-0.0093	-0.0049556	-0.0004	0.0039809
50	0.5226	0.52373	0.5246	0.0007931	0.5092	0.51686	0.5253	0.0073668	-0.0154	-0.00687	0.0013	0.0074171
100	0.5233	0.52534	0.5274	0.001397	0.4992	0.51405	0.5267	0.012423	-0.0241	-0.01129	0.0001	0.011289

Device Test: 16.7 LEVEL|EN_RISE/EN/12/12/0/0/5/500kHz//@V_EN_RISE





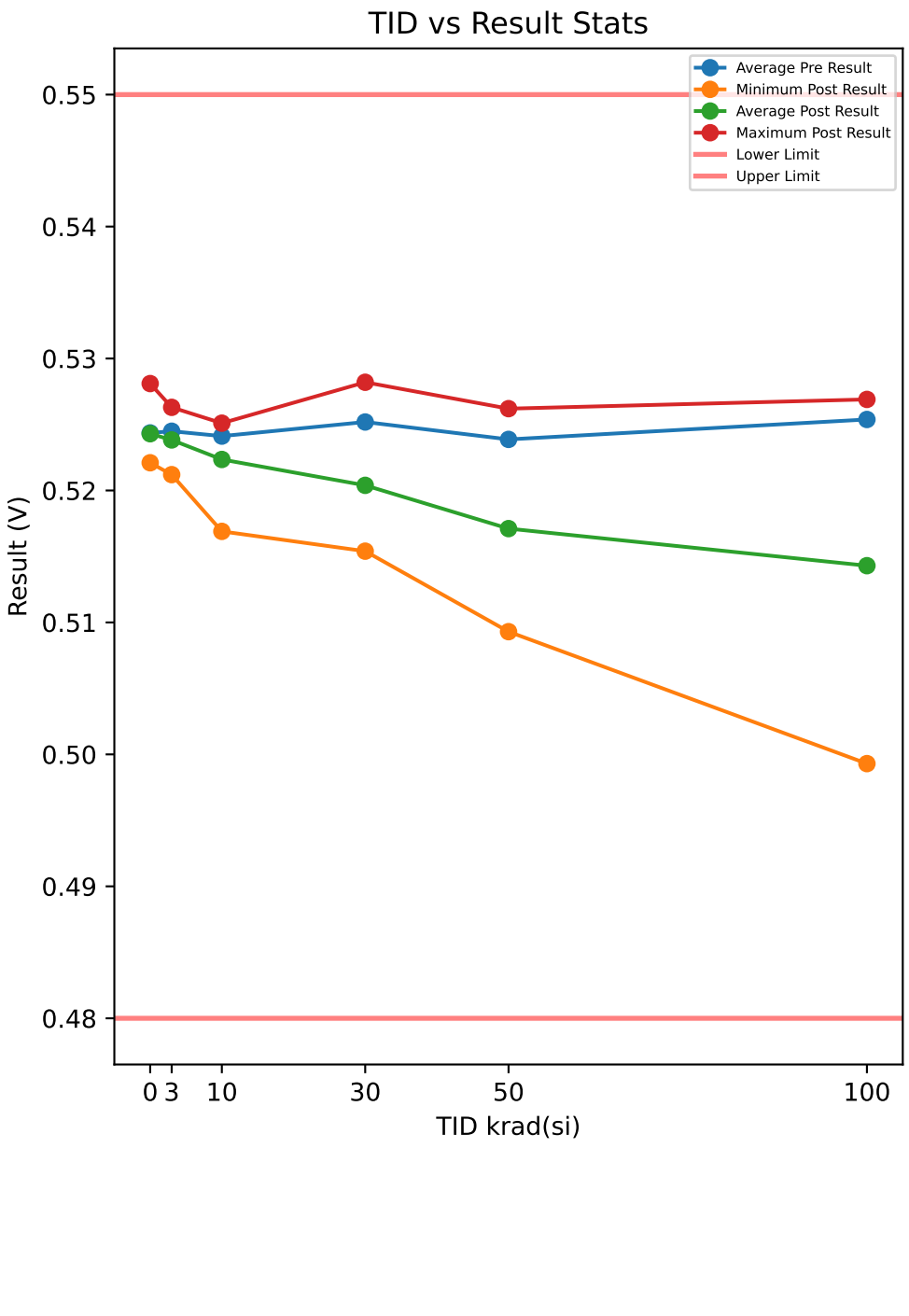
Test Results (Lower Limit = 0.57, Upper Limit = 0.66 (V))

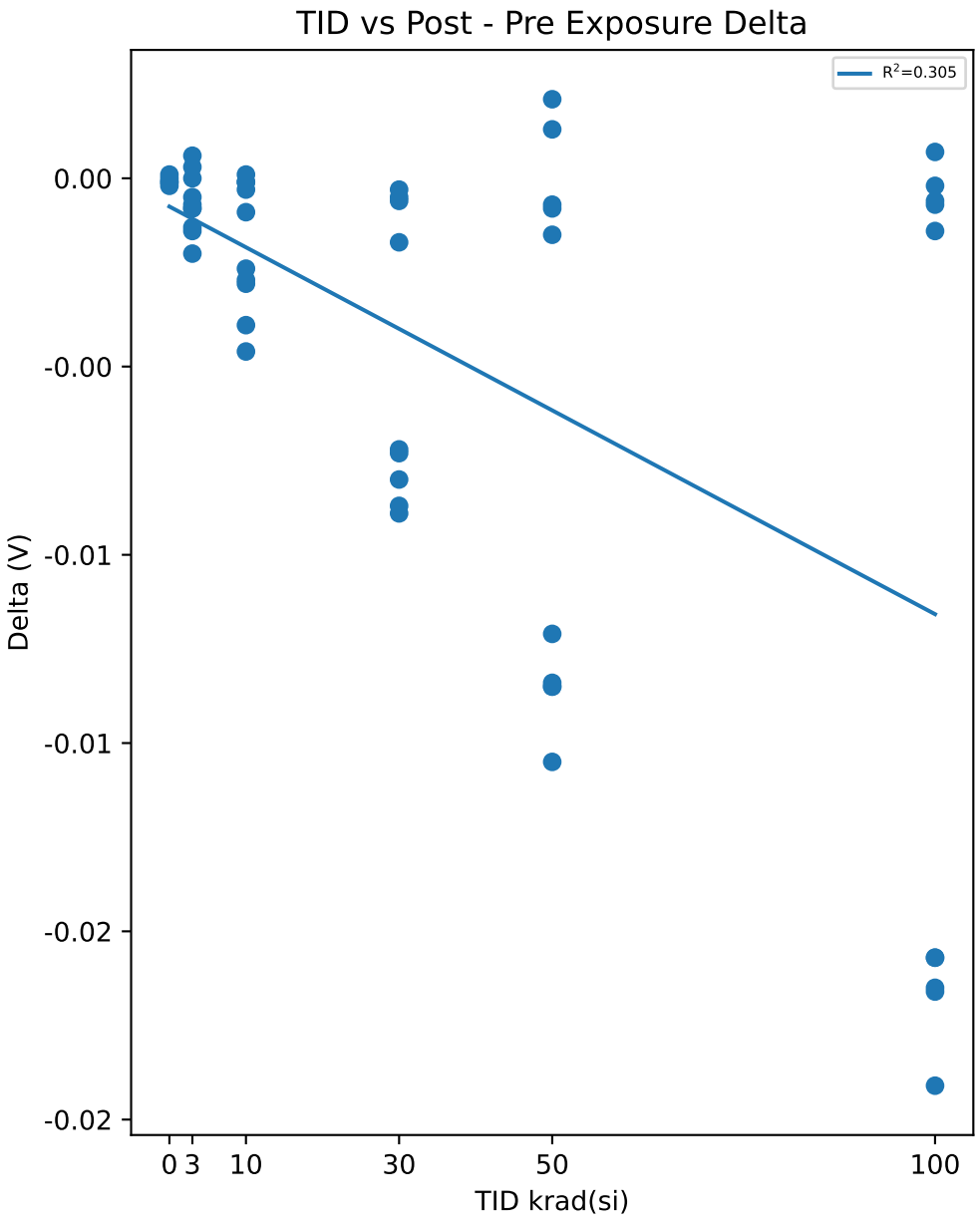
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	0.6333	0.6326	-0.0007
411	100	Unbiased	0.6327	0.632	-0.0007
444	30	Unbiased	0.6327	0.6314	-0.0013
454	10	Unbiased	0.6332	0.6335	0.0003
491	3	Unbiased	0.6333	0.6333	0
500	100	Unbiased	0.6358	0.6348	-0.001
534	100	Biased	0.6315	0.607	-0.0245
558	0	Correlation	0.6306	0.6302	-0.0004
563	100	Biased	0.6335	0.6117	-0.0218
570	3	Unbiased	0.6327	0.6336	0.0009
614	10	Unbiased	0.6335	0.6321	-0.0014
675	3	Biased	0.6332	0.6315	-0.0017
713	100	Unbiased	0.6355	0.6354	-0.0001
744	50	Biased	0.6306	0.6185	-0.0121
799	50	Biased	0.634	0.6192	-0.0148
842	30	Unbiased	0.6374	0.6368	-0.0006
889	3	Unbiased	0.6354	0.6349	-0.0005
901	3	Biased	0.632	0.6314	-0.0006
930	50	Unbiased	0.6333	0.6312	-0.0021
968	100	Unbiased	0.6346	0.6353	0.0007
976	100	Unbiased	0.636	0.6347	-0.0013
981	3	Biased	0.6339	0.6333	-0.0006
1003	10	Biased	0.6341	0.6313	-0.0028
1039	3	Biased	0.6315	0.6292	-0.0023
1053	100	Biased	0.6319	0.611	-0.0209
1056	0	Correlation	0.6312	0.6313	0.0001
1072	10	Biased	0.634	0.6313	-0.0027
1095	50	Unbiased	0.6325	0.6339	0.0014
1099	0	Correlation	0.6373	0.6372	-0.0001
1113	3	Biased	0.634	0.6327	-0.0013
1142	10	Unbiased	0.6313	0.632	0.0007
1154	10	Biased	0.6307	0.6286	-0.0021
1215	50	Unbiased	0.6318	0.6314	-0.0004
1222	100	Biased	0.6333	0.6116	-0.0217
1229	50	Unbiased	0.6314	0.6327	0.0013
1255	3	Unbiased	0.6313	0.6315	0.0002
1331	30	Unbiased	0.6327	0.6321	-0.0006
1359	30	Biased	0.6367	0.6279	-0.0088
1375	30	Unbiased	0.63	0.6293	-0.0007
1398	30	Biased	0.6333	0.6265	-0.0068
1411	50	Biased	0.6333	0.6174	-0.0159
1465	10	Unbiased	0.6319	0.6319	0
1474	50	Biased	0.6312	0.6179	-0.0133
1504	50	Biased	0.6318	0.6186	-0.0132
1540	100	Biased	0.6327	0.6118	-0.0209
1554	3	Unbiased	0.634	0.6339	-0.0001
1662	30	Biased	0.634	0.6265	-0.0075
1679	10	Biased	0.6332	0.6293	-0.0039
1697	10	Biased	0.6306	0.6264	-0.0042
1703	30	Biased	0.6326	0.6238	-0.0088
1704	10	Unbiased	0.6328	0.6326	-0.0002
1736	30	Biased	0.6354	0.6259	-0.0095
1737	0	Correlation	0.634	0.6339	-0.0001
1748	0	Correlation	0.6327	0.6326	-0.0001

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.6306	0.63316	0.6373	0.002667	0.6302	0.63304	0.6372	0.002708	-0.0004	-0.00012	0.0001	0.00017889
3	0.6313	0.63313	0.6354	0.0012807	0.6292	0.63253	0.6349	0.0016446	-0.0023	-0.0006	0.0009	0.00094868
10	0.6306	0.63253	0.6341	0.0013132	0.6264	0.6309	0.6335	0.002153	-0.0042	-0.00163	0.0007	0.0017764
30	0.63	0.63387	0.6374	0.0023043	0.6238	0.62891	0.6368	0.0039779	-0.0095	-0.0049556	-0.0006	0.0040234
50	0.6306	0.63232	0.634	0.0011223	0.6174	0.62534	0.6339	0.00745	-0.0159	-0.00698	0.0014	0.0073854
100	0.6315	0.63375	0.636	0.0016332	0.607	0.62253	0.6354	0.012663	-0.0245	-0.01122	0.0007	0.011376

Device Test: 16.8 LEVEL|EN_FALL/EN/12/12/0/0/5/500kHz//@V_EN_FALL





Test Results (Lower Limit = 0.48, Upper Limit = 0.55 (V))

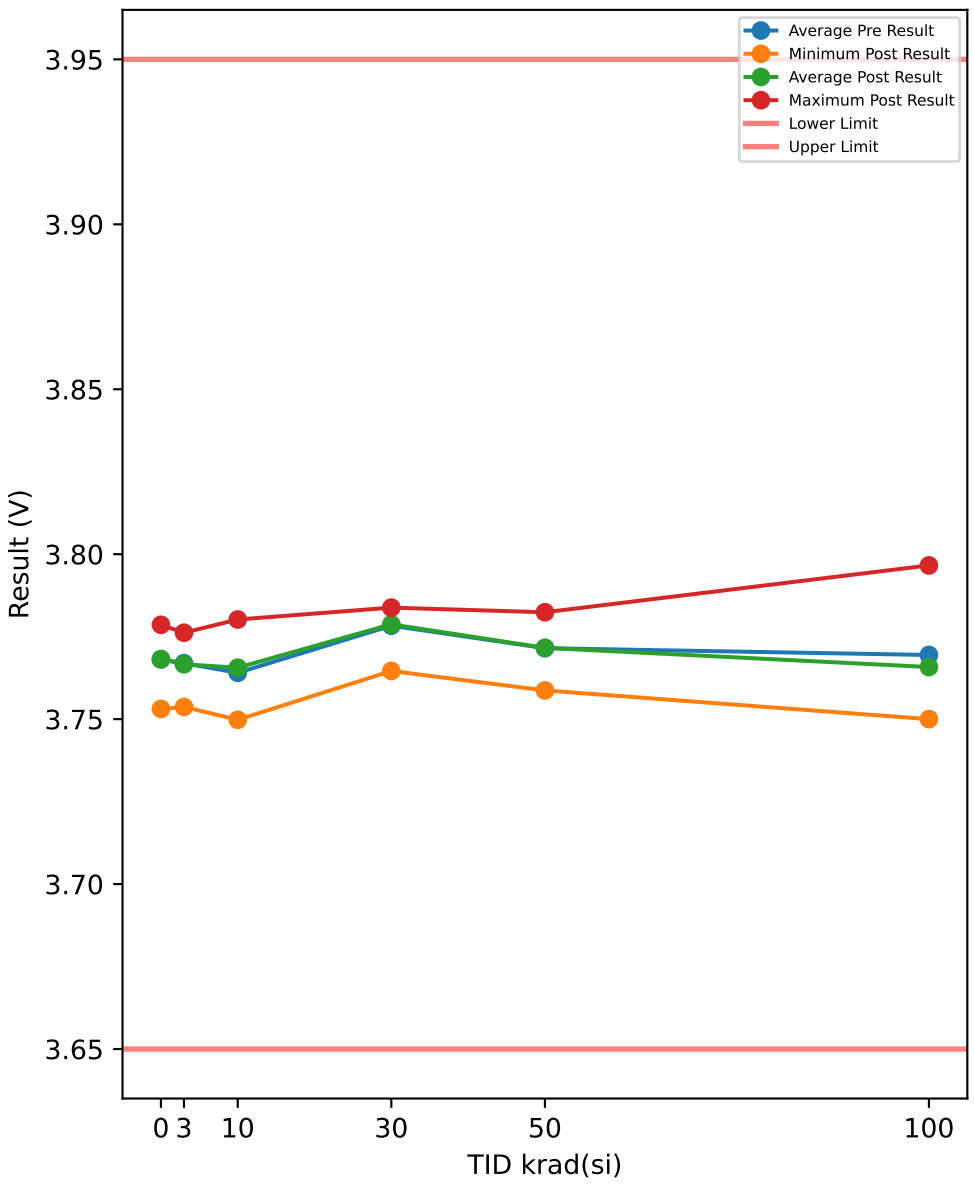
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	0.5248	0.5241	-0.0007
411	100	Unbiased	0.5248	0.5241	-0.0007
444	30	Unbiased	0.5241	0.5224	-0.0017
454	10	Unbiased	0.5254	0.5251	-0.0003
491	3	Unbiased	0.5255	0.5248	-0.0007
500	100	Unbiased	0.5269	0.5255	-0.0014
534	100	Biased	0.5234	0.4993	-0.0241
558	0	Correlation	0.5221	0.5221	0
563	100	Biased	0.5247	0.504	-0.0207
570	3	Unbiased	0.5235	0.5241	0.0006
614	10	Unbiased	0.5249	0.524	-0.0009
675	3	Biased	0.5246	0.5226	-0.002
713	100	Unbiased	0.5269	0.5267	-0.0002
744	50	Biased	0.5228	0.5107	-0.0121
799	50	Biased	0.5248	0.5113	-0.0135
842	30	Unbiased	0.5288	0.5282	-0.0006
889	3	Unbiased	0.5263	0.5263	0
901	3	Biased	0.5241	0.5228	-0.0013
930	50	Unbiased	0.5241	0.5226	-0.0015
968	100	Unbiased	0.526	0.5267	0.0007
976	100	Unbiased	0.5275	0.5269	-0.0006
981	3	Biased	0.5255	0.5247	-0.0008
1003	10	Biased	0.5254	0.523	-0.0024
1039	3	Biased	0.5226	0.5212	-0.0014
1053	100	Biased	0.5241	0.5026	-0.0215
1056	0	Correlation	0.5226	0.5225	-0.0001
1072	10	Biased	0.5254	0.5226	-0.0028
1095	50	Unbiased	0.5241	0.5262	0.0021
1099	0	Correlation	0.5283	0.5281	-0.0002
1113	3	Biased	0.5249	0.5241	-0.0008
1142	10	Unbiased	0.5236	0.5235	-0.0001
1154	10	Biased	0.5221	0.5194	-0.0027
1215	50	Unbiased	0.5236	0.5228	-0.0008
1222	100	Biased	0.5255	0.5039	-0.0216
1229	50	Unbiased	0.5228	0.5241	0.0013
1255	3	Unbiased	0.5233	0.5228	-0.0005
1331	30	Unbiased	0.5239	0.5236	-0.0003
1359	30	Biased	0.5281	0.5201	-0.008
1375	30	Unbiased	0.5213	0.5208	-0.0005
1398	30	Biased	0.5247	0.5175	-0.0072
1411	50	Biased	0.5248	0.5093	-0.0155
1465	10	Unbiased	0.5241	0.524	-0.0001
1474	50	Biased	0.5228	0.5094	-0.0134
1504	50	Biased	0.5241	0.5106	-0.0135
1540	100	Biased	0.524	0.5033	-0.0207
1554	3	Unbiased	0.5246	0.5249	0.0003
1662	30	Biased	0.5255	0.5182	-0.0073
1679	10	Biased	0.5247	0.5208	-0.0039
1697	10	Biased	0.5215	0.5169	-0.0046
1703	30	Biased	0.5243	0.5154	-0.0089
1704	10	Unbiased	0.5241	0.5242	0.0001
1736	30	Biased	0.526	0.5173	-0.0087
1737	0	Correlation	0.5248	0.5247	-0.0001
1748	0	Correlation	0.524	0.5241	0.0001

Test Statistics (V)

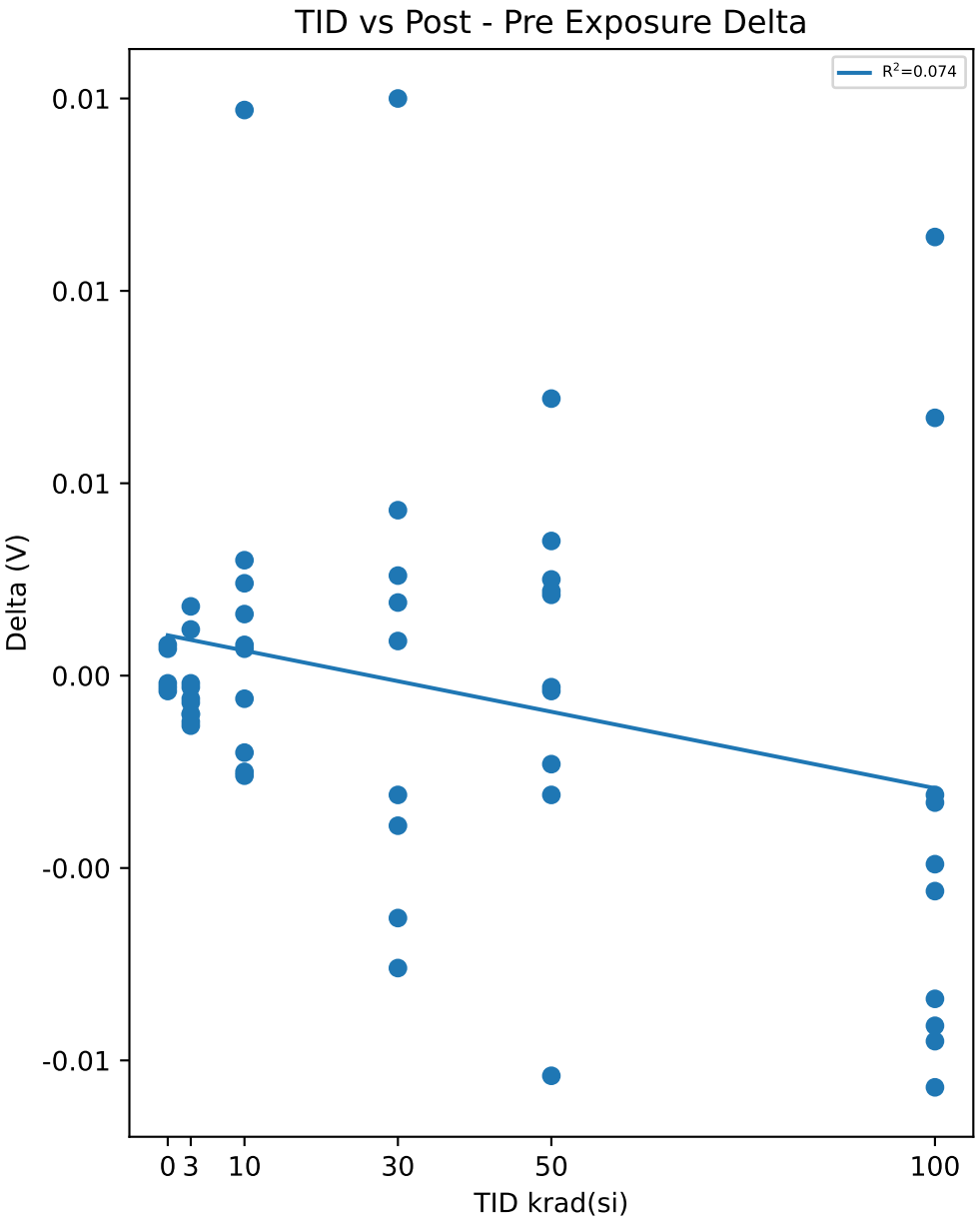
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.5221	0.52436	0.5283	0.0024521	0.5221	0.5243	0.5281	0.0023833	-0.0002	-6e-05	0.0001	0.00011402
3	0.5226	0.52449	0.5263	0.0011367	0.5212	0.52383	0.5263	0.0014773	-0.002	-0.00066	0.0006	0.00080028
10	0.5215	0.52412	0.5254	0.0013774	0.5169	0.52235	0.5251	0.0025614	-0.0046	-0.00177	0.0001	0.0017276
30	0.5213	0.52519	0.5288	0.0022713	0.5154	0.52039	0.5282	0.0039241	-0.0089	-0.0048	-0.0003	0.0038772
50	0.5228	0.52387	0.5248	0.00083407	0.5093	0.51711	0.5262	0.007307	-0.0155	-0.00676	0.0021	0.0073275
100	0.5234	0.52538	0.5275	0.0014054	0.4993	0.5143	0.5269	0.012405	-0.0241	-0.01108	0.0007	0.011266

Device Test: 17.10 UVLO|VLDO_RISE/VLDO/4.5/4.5/0/1000/4.5/500kHz//@VLDO_UVLO_RISE

TID vs Result Stats



TID vs Post - Pre Exposure Delta



Test Results (Lower Limit = 3.65, Upper Limit = 3.95 (V))

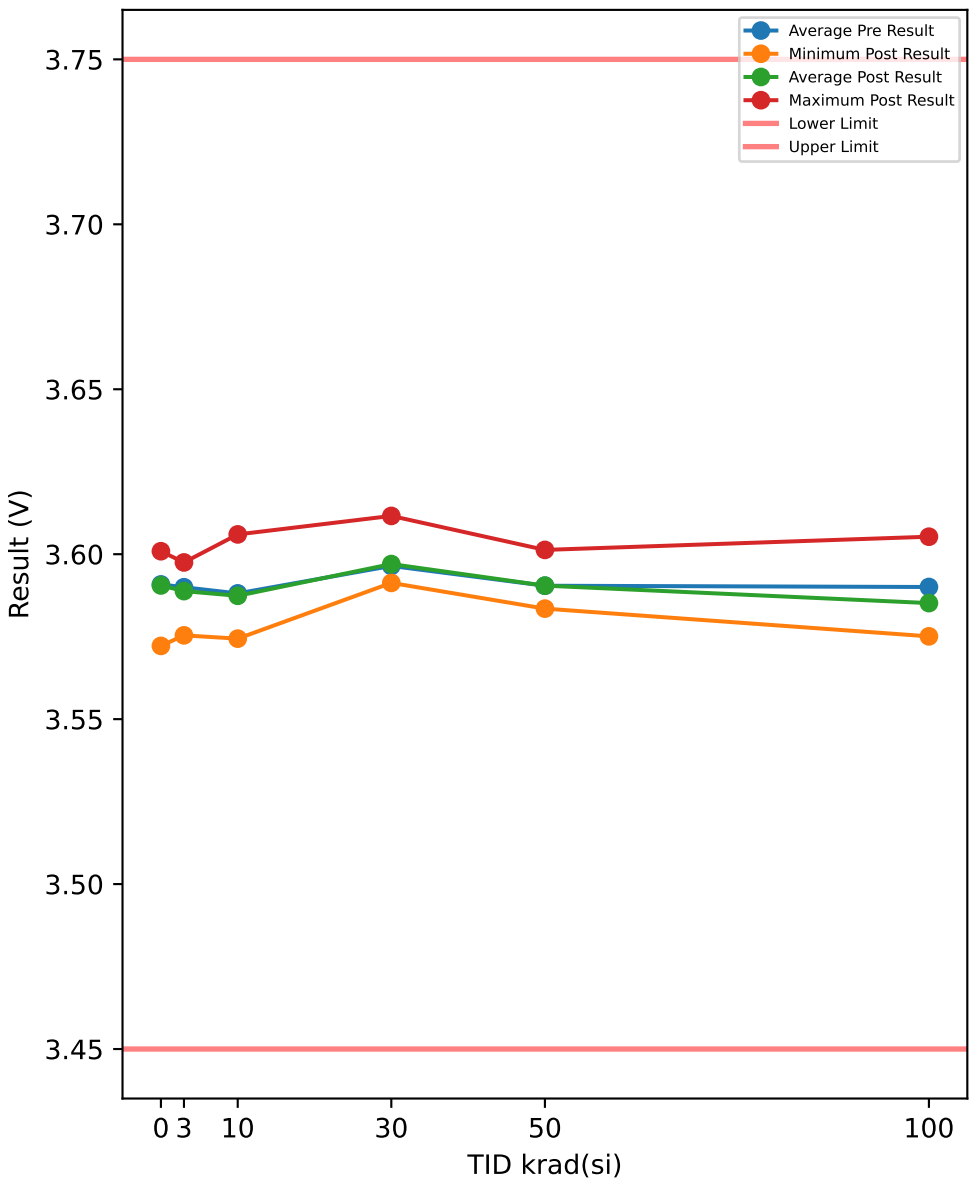
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	3.7699	3.7696	-0.0003
411	100	Unbiased	3.7599	3.7568	-0.0031
444	30	Unbiased	3.7812	3.7736	-0.0076
454	10	Unbiased	3.7674	3.7698	0.0024
491	3	Unbiased	3.763	3.7623	-0.0007
500	100	Unbiased	3.7899	3.7866	-0.0033
534	100	Biased	3.7749	3.7654	-0.0095
558	0	Correlation	3.7739	3.7735	-0.0004
563	100	Biased	3.7627	3.7543	-0.0084
570	3	Unbiased	3.7675	3.7687	0.0012
614	10	Unbiased	3.7769	3.7777	0.0008
675	3	Biased	3.7702	3.7696	-0.0006
713	100	Unbiased	3.7616	3.773	0.0114
744	50	Biased	3.7799	3.782	0.0021
799	50	Biased	3.7928	3.7824	-0.0104
842	30	Unbiased	3.7799	3.7808	0.0009
889	3	Unbiased	3.7647	3.7637	-0.001
901	3	Biased	3.7577	3.7574	-0.0003
930	50	Unbiased	3.7686	3.7655	-0.0031
968	100	Unbiased	3.7655	3.7564	-0.0091
976	100	Unbiased	3.7719	3.7612	-0.0107
981	3	Biased	3.7638	3.7636	-0.0002
1003	10	Biased	3.7564	3.7539	-0.0025
1039	3	Biased	3.7549	3.7537	-0.0012
1053	100	Biased	3.7549	3.75	-0.0049
1056	0	Correlation	3.7602	3.761	0.0008
1072	10	Biased	3.7721	3.7715	-0.0006
1095	50	Unbiased	3.766	3.7685	0.0025
1099	0	Correlation	3.7752	3.7749	-0.0003
1113	3	Biased	3.7744	3.7762	0.0018
1142	10	Unbiased	3.7524	3.7498	-0.0026
1154	10	Biased	3.7655	3.7802	0.0147
1215	50	Unbiased	3.7552	3.7587	0.0035
1222	100	Biased	3.7633	3.7577	-0.0056
1229	50	Unbiased	3.7794	3.779	-0.0004
1255	3	Unbiased	3.7762	3.7749	-0.0013
1331	30	Unbiased	3.7662	3.7812	0.015
1359	30	Biased	3.7855	3.7824	-0.0031
1375	30	Unbiased	3.778	3.7799	0.0019
1398	30	Biased	3.7812	3.7838	0.0026
1411	50	Biased	3.7721	3.7793	0.0072
1465	10	Unbiased	3.7614	3.7621	0.0007
1474	50	Biased	3.7635	3.7612	-0.0023
1504	50	Biased	3.7677	3.7699	0.0022
1540	100	Biased	3.7899	3.7966	0.0067
1554	3	Unbiased	3.7772	3.7762	-0.001
1662	30	Biased	3.7872	3.7809	-0.0063
1679	10	Biased	3.7615	3.7595	-0.002
1697	10	Biased	3.7535	3.7565	0.003
1703	30	Biased	3.7685	3.7646	-0.0039
1704	10	Unbiased	3.7733	3.7749	0.0016
1736	30	Biased	3.7772	3.7815	0.0043
1737	0	Correlation	3.7788	3.7786	-0.0002
1748	0	Correlation	3.7524	3.7531	0.0007

Test Statistics (V)

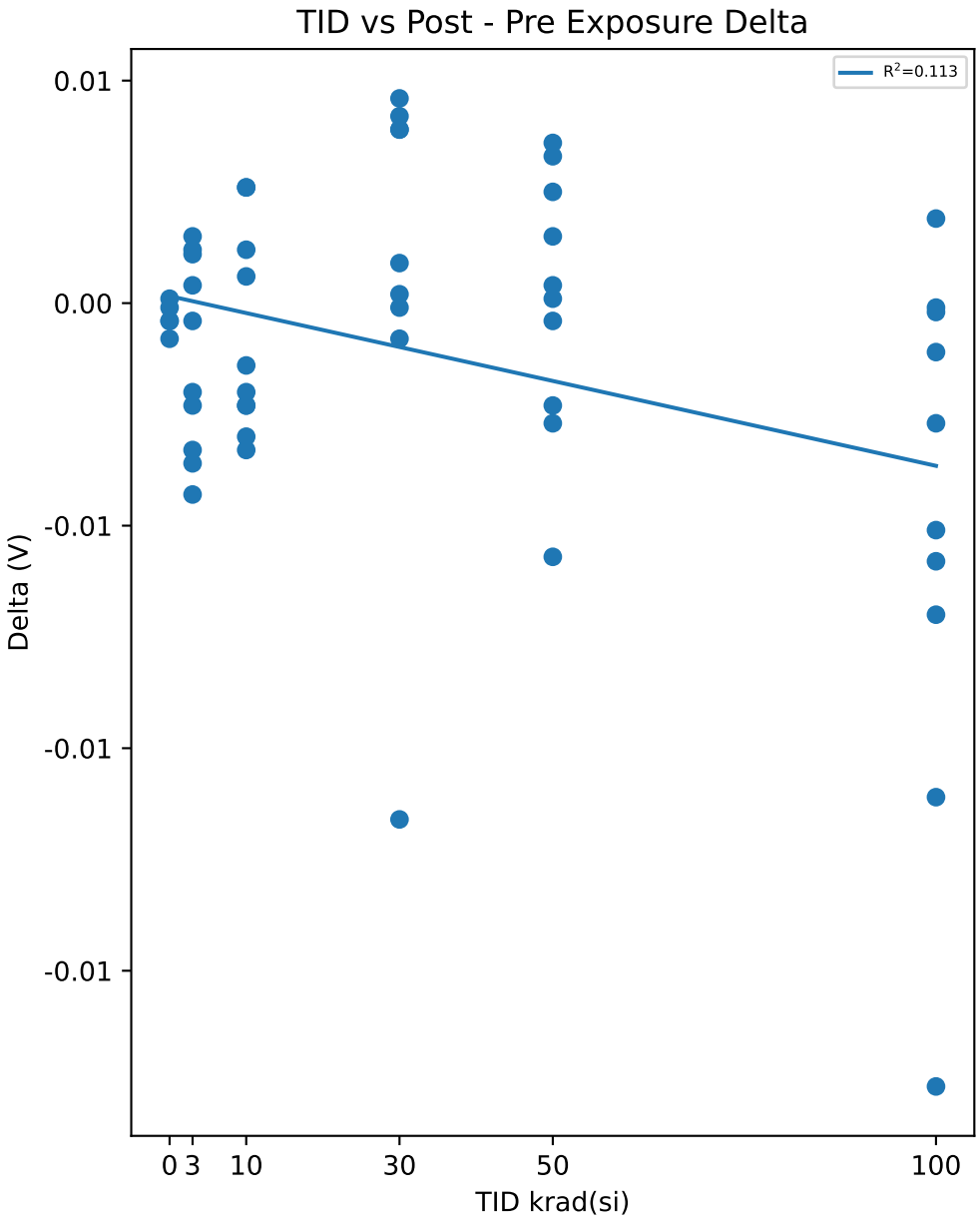
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	3.7524	3.7681	3.7788	0.011263	3.7531	3.7682	3.7786	0.010735	-0.0004	0.00012	0.0008	0.00058052
3	3.7549	3.767	3.7772	0.0075891	3.7537	3.7666	3.7762	0.0078426	-0.0013	-0.00033	0.0018	0.0010382
10	3.7524	3.764	3.7769	0.0084845	3.7498	3.7656	3.7802	0.010632	-0.0026	0.00155	0.0147	0.005032
30	3.7662	3.7783	3.7872	0.0070194	3.7646	3.7787	3.7838	0.0060133	-0.0076	0.00042222	0.015	0.0068496
50	3.7552	3.7715	3.7928	0.010394	3.7587	3.7716	3.7824	0.0086096	-0.0104	0.0001	0.0072	0.0047469
100	3.7549	3.7694	3.7899	0.012182	3.75	3.7658	3.7966	0.015171	-0.0107	-0.00365	0.0114	0.0072695

Device Test: 17.11 UVLO|VLDO_FALL/VLDO/4.5/4.5/0/1000/4.5/500kHz//@VLDO_UVLO_FALL

TID vs Result Stats



TID vs Post - Pre Exposure Delta



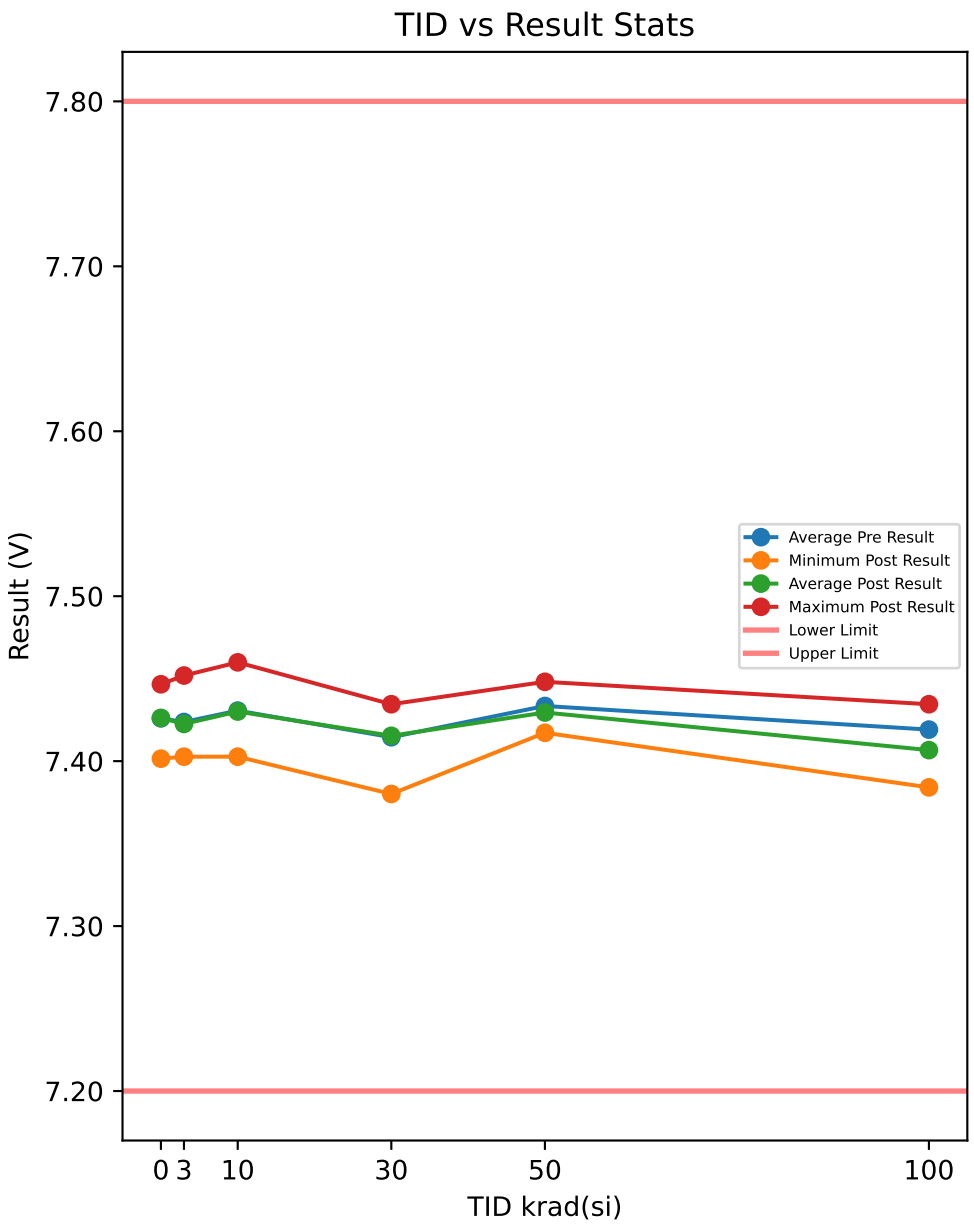
Test Results (Lower Limit = 3.45, Upper Limit = 3.75 (V))

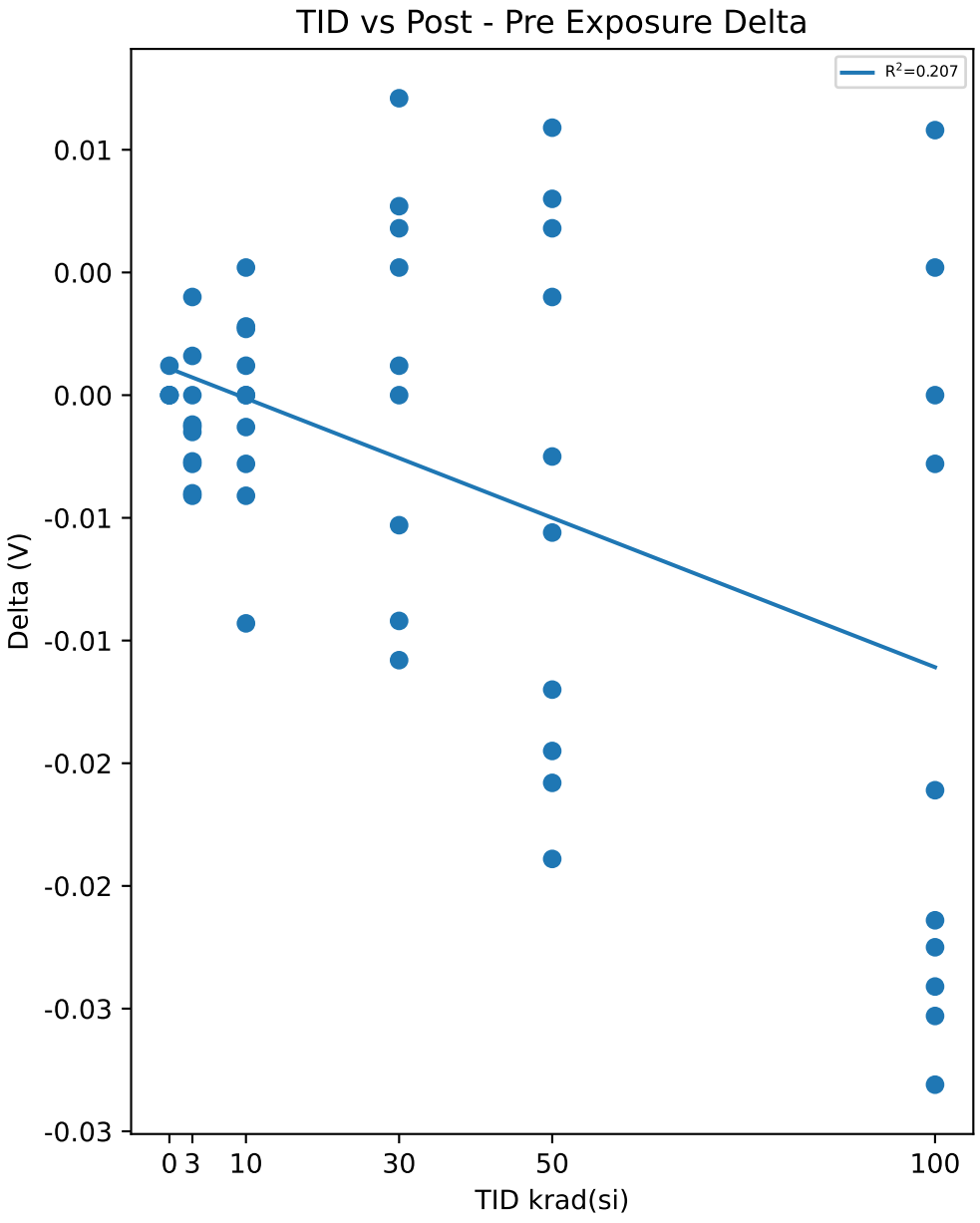
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	3.5939	3.5882	-0.0057
411	100	Unbiased	3.5796	3.5794	-0.0002
444	30	Unbiased	3.6117	3.6116	-0.0001
454	10	Unbiased	3.5814	3.584	0.0026
491	3	Unbiased	3.5905	3.5909	0.0004
500	100	Unbiased	3.6018	3.6037	0.0019
534	100	Biased	3.587	3.5819	-0.0051
558	0	Correlation	3.5902	3.5903	0.0001
563	100	Biased	3.5845	3.5844	-0.0001
570	3	Unbiased	3.5914	3.5894	-0.002
614	10	Unbiased	3.6083	3.606	-0.0023
675	3	Biased	3.5946	3.5913	-0.0033
713	100	Unbiased	3.5874	3.5847	-0.0027
744	50	Biased	3.5908	3.5912	0.0004
799	50	Biased	3.6017	3.6013	-0.0004
842	30	Unbiased	3.5905	3.5947	0.0042
889	3	Unbiased	3.5905	3.5882	-0.0023
901	3	Biased	3.5814	3.5825	0.0011
930	50	Unbiased	3.5871	3.5872	0.0001
968	100	Unbiased	3.5858	3.58	-0.0058
976	100	Unbiased	3.5883	3.5813	-0.007
981	3	Biased	3.5896	3.5853	-0.0043
1003	10	Biased	3.5758	3.5744	-0.0014
1039	3	Biased	3.5739	3.5754	0.0015
1053	100	Biased	3.5927	3.5751	-0.0176
1056	0	Correlation	3.5726	3.5722	-0.0004
1072	10	Biased	3.5907	3.5919	0.0012
1095	50	Unbiased	3.5817	3.5853	0.0036
1099	0	Correlation	3.5964	3.5963	-0.0001
1113	3	Biased	3.5914	3.5926	0.0012
1142	10	Unbiased	3.5895	3.5872	-0.0023
1154	10	Biased	3.5907	3.5913	0.0006
1215	50	Unbiased	3.5851	3.5876	0.0025
1222	100	Biased	3.5871	3.576	-0.0111
1229	50	Unbiased	3.6017	3.5994	-0.0023
1255	3	Unbiased	3.5979	3.5975	-0.0004
1331	30	Unbiased	3.5886	3.5925	0.0039
1359	30	Biased	3.6079	3.5963	-0.0116
1375	30	Unbiased	3.5907	3.5953	0.0046
1398	30	Biased	3.5992	3.5984	-0.0008
1411	50	Biased	3.5943	3.5916	-0.0027
1465	10	Unbiased	3.5905	3.5875	-0.003
1474	50	Biased	3.5802	3.5835	0.0033
1504	50	Biased	3.5879	3.5894	0.0015
1540	100	Biased	3.6064	3.6053	-0.0011
1554	3	Unbiased	3.5986	3.595	-0.0036
1662	30	Biased	3.5986	3.5995	0.0009
1679	10	Biased	3.5839	3.5865	0.0026
1697	10	Biased	3.5786	3.5766	-0.002
1703	30	Biased	3.5874	3.5913	0.0039
1704	10	Unbiased	3.5918	3.5885	-0.0033
1736	30	Biased	3.5933	3.5935	0.0002
1737	0	Correlation	3.6017	3.6009	-0.0008
1748	0	Correlation	3.5933	3.5929	-0.0004

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	3.5726	3.5908	3.6017	0.011045	3.5722	3.5905	3.6009	0.010983	-0.0008	-0.00032	0.0001	0.00034205
3	3.5739	3.59	3.5986	0.0074183	3.5754	3.5888	3.5975	0.0064243	-0.0043	-0.00117	0.0015	0.0021899
10	3.5758	3.5881	3.6083	0.0091107	3.5744	3.5874	3.606	0.0086967	-0.0033	-0.00073	0.0026	0.0022711
30	3.5874	3.5964	3.6117	0.0086441	3.5913	3.597	3.6116	0.0060728	-0.0116	0.00057778	0.0046	0.0050284
50	3.5802	3.5904	3.6017	0.0075125	3.5835	3.5905	3.6013	0.0057675	-0.0057	3e-05	0.0036	0.002939
100	3.5796	3.5901	3.6064	0.0081552	3.5751	3.5852	3.6053	0.010649	-0.0176	-0.00488	0.0019	0.005922

Device Test: 17.13 UVLO|PVIN_RISE/PVIN/4.5/4.5/0/1000/4.5/100kHz//@PVIN_UVLO_RISE_503X





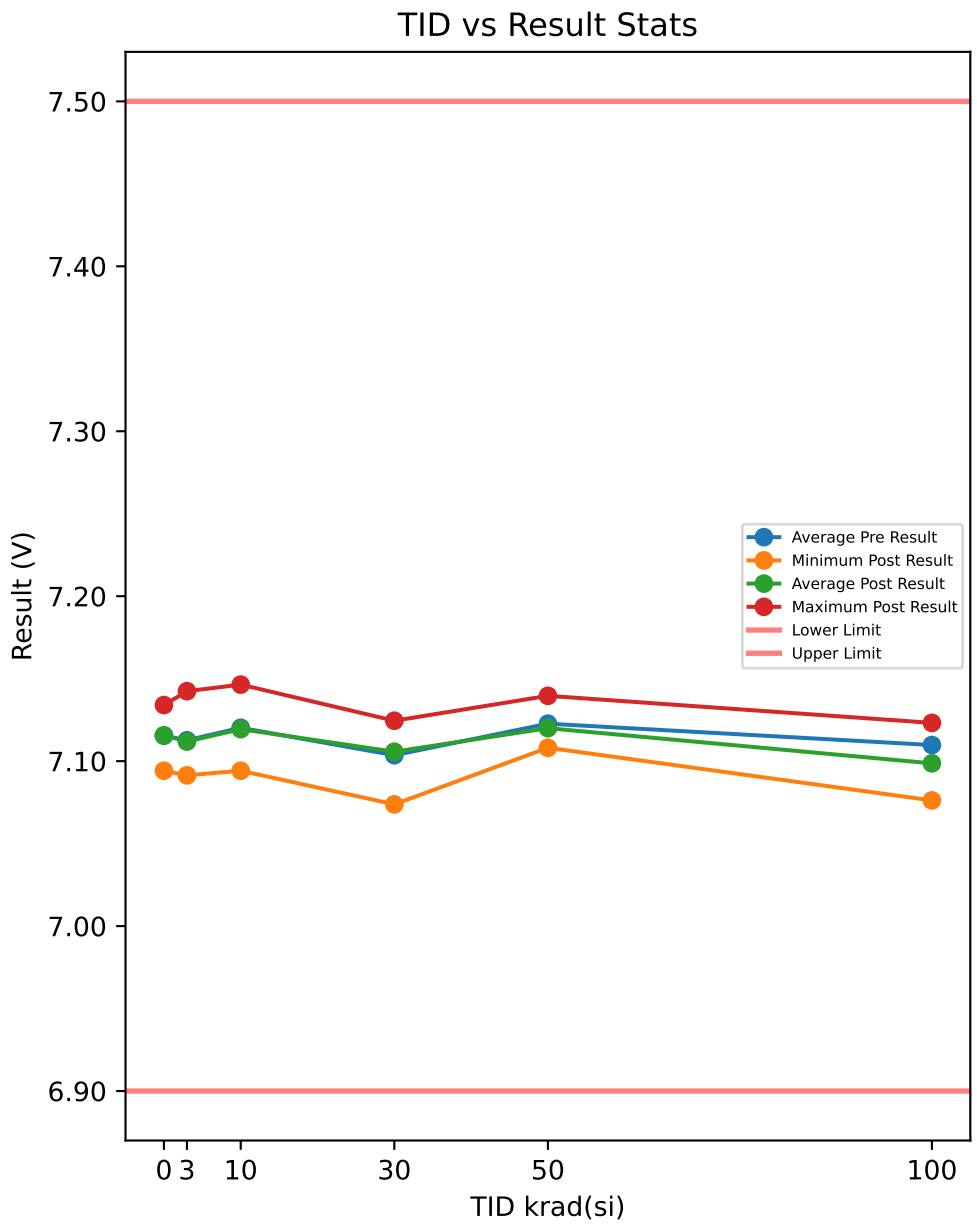
Test Results (Lower Limit = 7.2, Upper Limit = 7.8 (V))

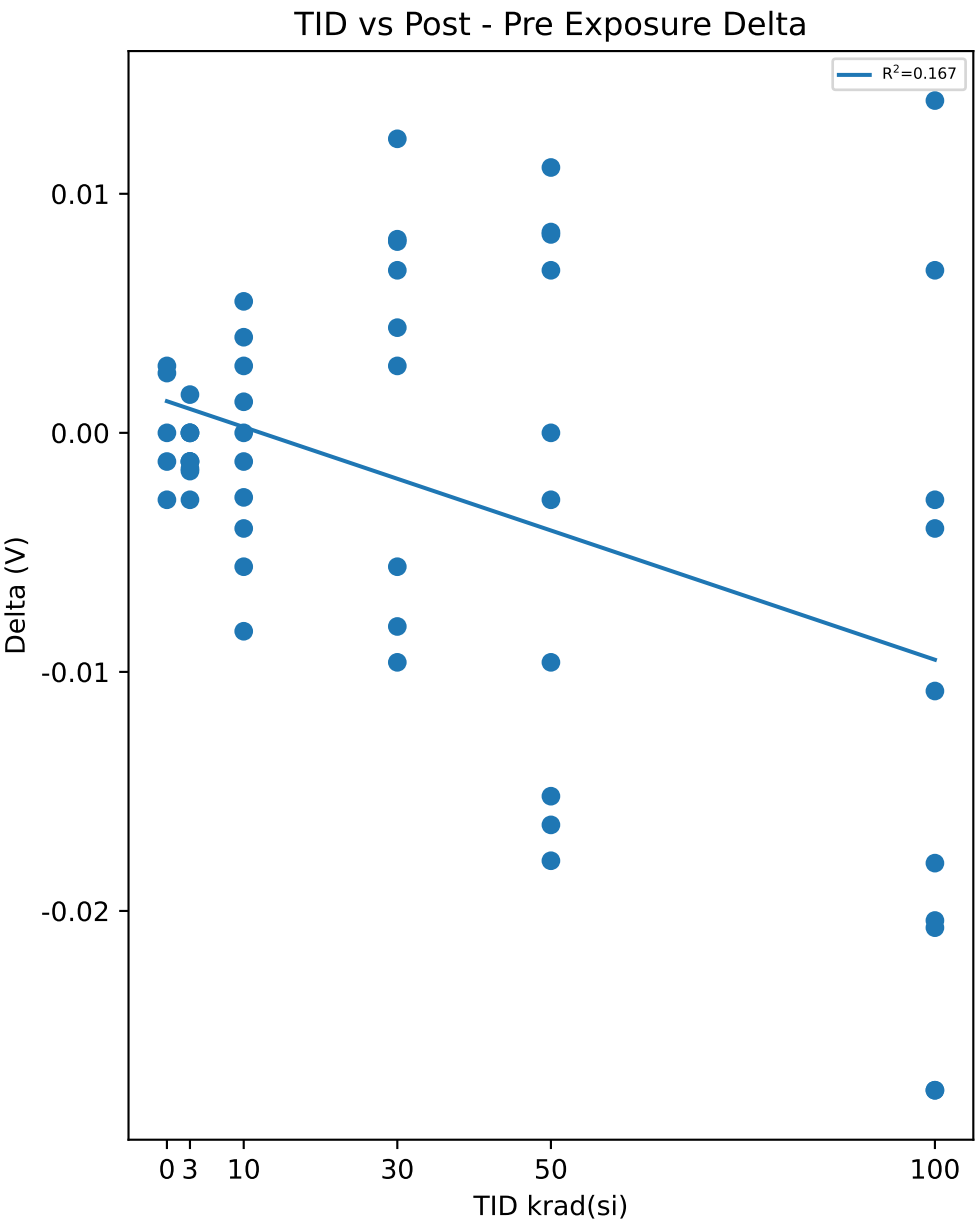
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	7.424	7.428	0.004
411	100	Unbiased	7.412	7.4172	0.0052
444	30	Unbiased	7.4413	7.4321	-0.0092
454	10	Unbiased	7.4293	7.428	-0.0013
491	3	Unbiased	7.4426	7.4413	-0.0013
500	100	Unbiased	7.4373	7.4345	-0.0028
534	100	Biased	7.424	7.4015	-0.0225
558	0	Correlation	7.4015	7.4015	0
563	100	Biased	7.4188	7.4027	-0.0161
570	3	Unbiased	7.42	7.4188	-0.0012
614	10	Unbiased	7.4373	7.4373	0
675	3	Biased	7.424	7.424	0
713	100	Unbiased	7.4055	7.4055	0
744	50	Biased	7.4639	7.4481	-0.0158
799	50	Biased	7.4413	7.4293	-0.012
842	30	Unbiased	7.3801	7.3801	0
889	3	Unbiased	7.4107	7.4092	-0.0015
901	3	Biased	7.4268	7.424	-0.0028
930	50	Unbiased	7.4361	7.4172	-0.0189
968	100	Unbiased	7.3999	7.4107	0.0108
976	100	Unbiased	7.4361	7.408	-0.0281
981	3	Biased	7.4172	7.4188	0.0016
1003	10	Biased	7.412	7.4027	-0.0093
1039	3	Biased	7.4067	7.4027	-0.004
1053	100	Biased	7.4055	7.3841	-0.0214
1056	0	Correlation	7.4067	7.4067	0
1072	10	Biased	7.4386	7.4413	0.0027
1095	50	Unbiased	7.4212	7.428	0.0068
1099	0	Correlation	7.4361	7.4361	0
1113	3	Biased	7.4148	7.4107	-0.0041
1142	10	Unbiased	7.412	7.4132	0.0012
1154	10	Biased	7.4627	7.4599	-0.0028
1215	50	Unbiased	7.4361	7.4441	0.008
1222	100	Biased	7.4321	7.408	-0.0241
1229	50	Unbiased	7.4212	7.4321	0.0109
1255	3	Unbiased	7.4546	7.4519	-0.0027
1331	30	Unbiased	7.4132	7.4253	0.0121
1359	30	Biased	7.424	7.4132	-0.0108
1375	30	Unbiased	7.412	7.4172	0.0052
1398	30	Biased	7.4132	7.42	0.0068
1411	50	Biased	7.4373	7.4228	-0.0145
1465	10	Unbiased	7.412	7.4172	0.0052
1474	50	Biased	7.4305	7.428	-0.0025
1504	50	Biased	7.4228	7.4172	-0.0056
1540	100	Biased	7.42	7.3947	-0.0253
1554	3	Unbiased	7.42	7.424	0.004
1662	30	Biased	7.4055	7.4132	0.0077
1679	10	Biased	7.4386	7.4345	-0.0041
1697	10	Biased	7.4345	7.4345	0
1703	30	Biased	7.408	7.4027	-0.0053
1704	10	Unbiased	7.4293	7.4321	0.0028
1736	30	Biased	7.4333	7.4345	0.0012
1737	0	Correlation	7.4401	7.4401	0
1748	0	Correlation	7.4454	7.4466	0.0012

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	7.4015	7.426	7.4454	0.02031	7.4015	7.4262	7.4466	0.020602	0	0.00024	0.0012	0.00053666
3	7.4067	7.4237	7.4546	0.014638	7.4027	7.4225	7.4519	0.014758	-0.0041	-0.0012	0.004	0.0025272
10	7.412	7.4306	7.4627	0.015846	7.4027	7.4301	7.4599	0.016039	-0.0093	-0.00056	0.0052	0.0041272
30	7.3801	7.4145	7.4413	0.0176	7.3801	7.4154	7.4345	0.01652	-0.0108	0.00085556	0.0121	0.007931
50	7.4212	7.4334	7.4639	0.013035	7.4172	7.4295	7.4481	0.010111	-0.0189	-0.00396	0.0109	0.01099
100	7.3999	7.4191	7.4373	0.013346	7.3841	7.4067	7.4345	0.01334	-0.0281	-0.01243	0.0108	0.0143

Device Test: 17.14 UVLO|PVIN_FALL/PVIN/4.5/4.5/0/1000/4.5/100kHz//@PVIN_UVLO_FALL_503X





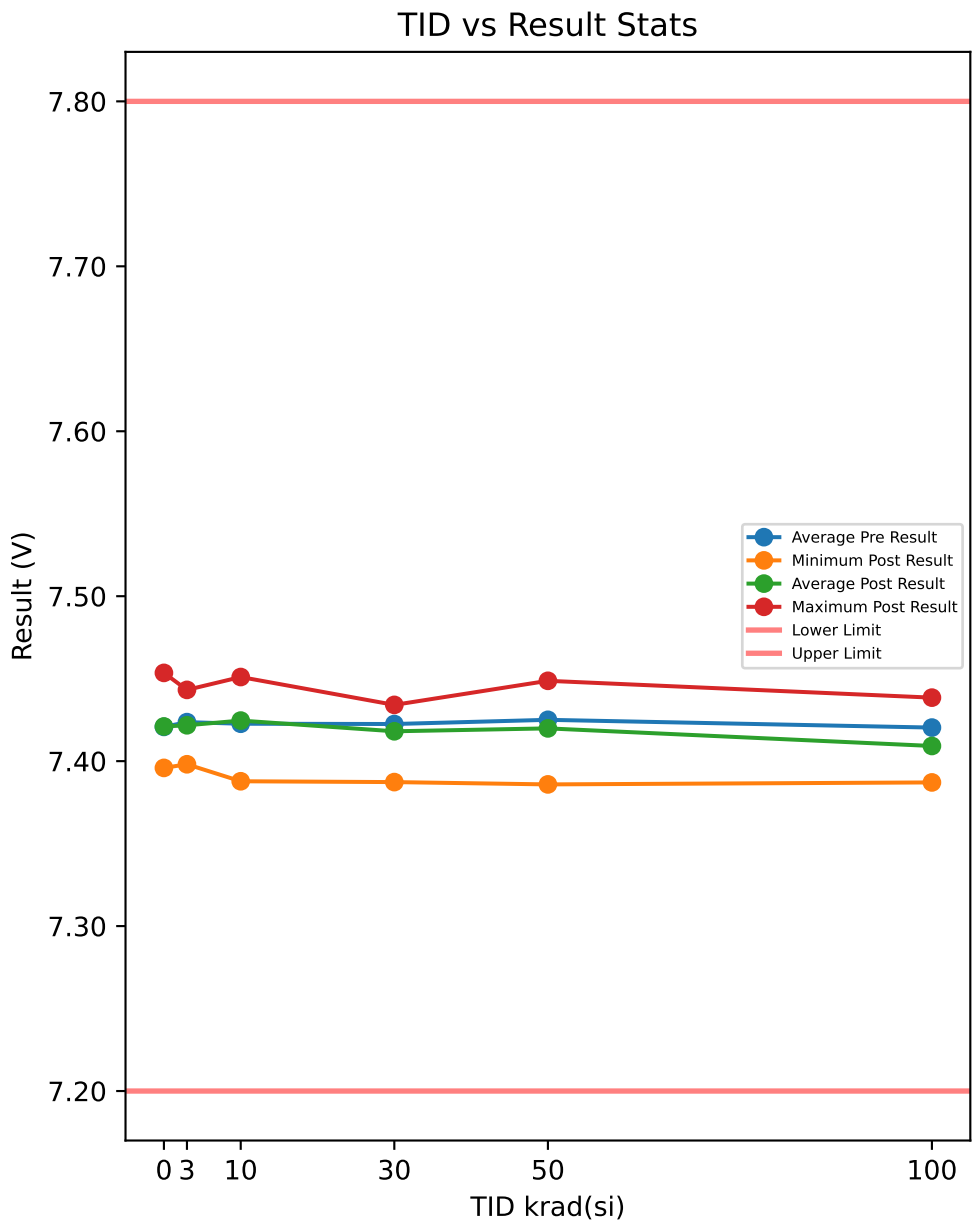
Test Results (Lower Limit = 6.9, Upper Limit = 7.5 (V))

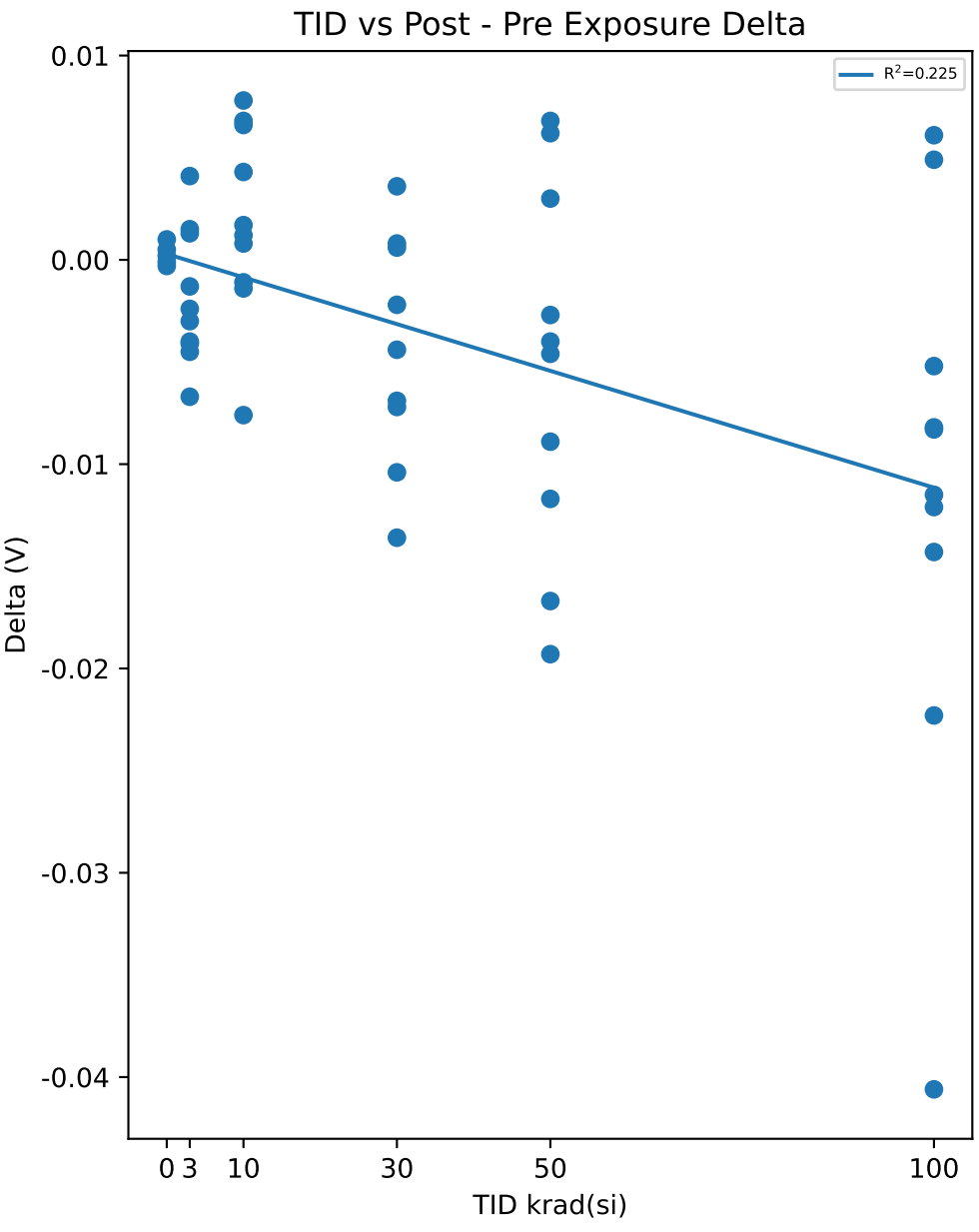
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	7.1136	7.1204	0.0068
411	100	Unbiased	7.1053	7.1121	0.0068
444	30	Unbiased	7.1285	7.1204	-0.0081
454	10	Unbiased	7.1217	7.1177	-0.004
491	3	Unbiased	7.1328	7.1313	-0.0015
500	100	Unbiased	7.1272	7.1232	-0.004
534	100	Biased	7.1161	7.0957	-0.0204
558	0	Correlation	7.0929	7.0957	0.0028
563	100	Biased	7.1093	7.0985	-0.0108
570	3	Unbiased	7.1081	7.1065	-0.0016
614	10	Unbiased	7.1272	7.1245	-0.0027
675	3	Biased	7.1136	7.1136	0
713	100	Unbiased	7.0957	7.0929	-0.0028
744	50	Biased	7.1548	7.1396	-0.0152
799	50	Biased	7.1313	7.1217	-0.0096
842	30	Unbiased	7.0694	7.0738	0.0044
889	3	Unbiased	7.0997	7.0997	0
901	3	Biased	7.1161	7.1149	-0.0012
930	50	Unbiased	7.1245	7.1081	-0.0164
968	100	Unbiased	7.0886	7.1025	0.0139
976	100	Unbiased	7.126	7.0985	-0.0275
981	3	Biased	7.1065	7.1065	0
1003	10	Biased	7.1025	7.0942	-0.0083
1039	3	Biased	7.0942	7.0914	-0.0028
1053	100	Biased	7.0942	7.0762	-0.018
1056	0	Correlation	7.097	7.0942	-0.0028
1072	10	Biased	7.1272	7.13	0.0028
1095	50	Unbiased	7.1093	7.1177	0.0084
1099	0	Correlation	7.1272	7.126	-0.0012
1113	3	Biased	7.1025	7.1013	-0.0012
1142	10	Unbiased	7.1025	7.1038	0.0013
1154	10	Biased	7.152	7.1464	-0.0056
1215	50	Unbiased	7.1245	7.1356	0.0111
1222	100	Biased	7.126	7.0985	-0.0275
1229	50	Unbiased	7.1121	7.1204	0.0083
1255	3	Unbiased	7.1436	7.1424	-0.0012
1331	30	Unbiased	7.1038	7.1161	0.0123
1359	30	Biased	7.1109	7.1013	-0.0096
1375	30	Unbiased	7.1013	7.1093	0.008
1398	30	Biased	7.1025	7.1093	0.0068
1411	50	Biased	7.13	7.1121	-0.0179
1465	10	Unbiased	7.1025	7.1065	0.004
1474	50	Biased	7.1161	7.1161	0
1504	50	Biased	7.1109	7.1081	-0.0028
1540	100	Biased	7.1093	7.0886	-0.0207
1554	3	Unbiased	7.1093	7.1109	0.0016
1662	30	Biased	7.0957	7.1038	0.0081
1679	10	Biased	7.1272	7.126	-0.0012
1697	10	Biased	7.1217	7.1217	0
1703	30	Biased	7.0985	7.0929	-0.0056
1704	10	Unbiased	7.1177	7.1232	0.0055
1736	30	Biased	7.1217	7.1245	0.0028
1737	0	Correlation	7.126	7.1285	0.0025
1748	0	Correlation	7.134	7.134	0

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	7.0929	7.1154	7.134	0.018989	7.0942	7.1157	7.134	0.019151	-0.0028	0.00026	0.0028	0.0023996
3	7.0942	7.1126	7.1436	0.01512	7.0914	7.1118	7.1424	0.015126	-0.0028	-0.00079	0.0016	0.0012151
10	7.1025	7.1202	7.152	0.015307	7.0942	7.1194	7.1464	0.014826	-0.0083	-0.00082	0.0055	0.0043974
30	7.0694	7.1036	7.1285	0.016828	7.0738	7.1057	7.1245	0.015444	-0.0096	0.0021222	0.0123	0.0079289
50	7.1093	7.1227	7.1548	0.013831	7.1081	7.12	7.1396	0.010524	-0.0179	-0.00273	0.0111	0.011327
100	7.0886	7.1098	7.1272	0.014062	7.0762	7.0987	7.1232	0.012672	-0.0275	-0.0111	0.0139	0.014256

Device Test: 17.16 UVLO|VIN_RISE/VIN/4.5/4.5/0/1000/4.5/100kHz//@VIN_UVLO_RISE_503X





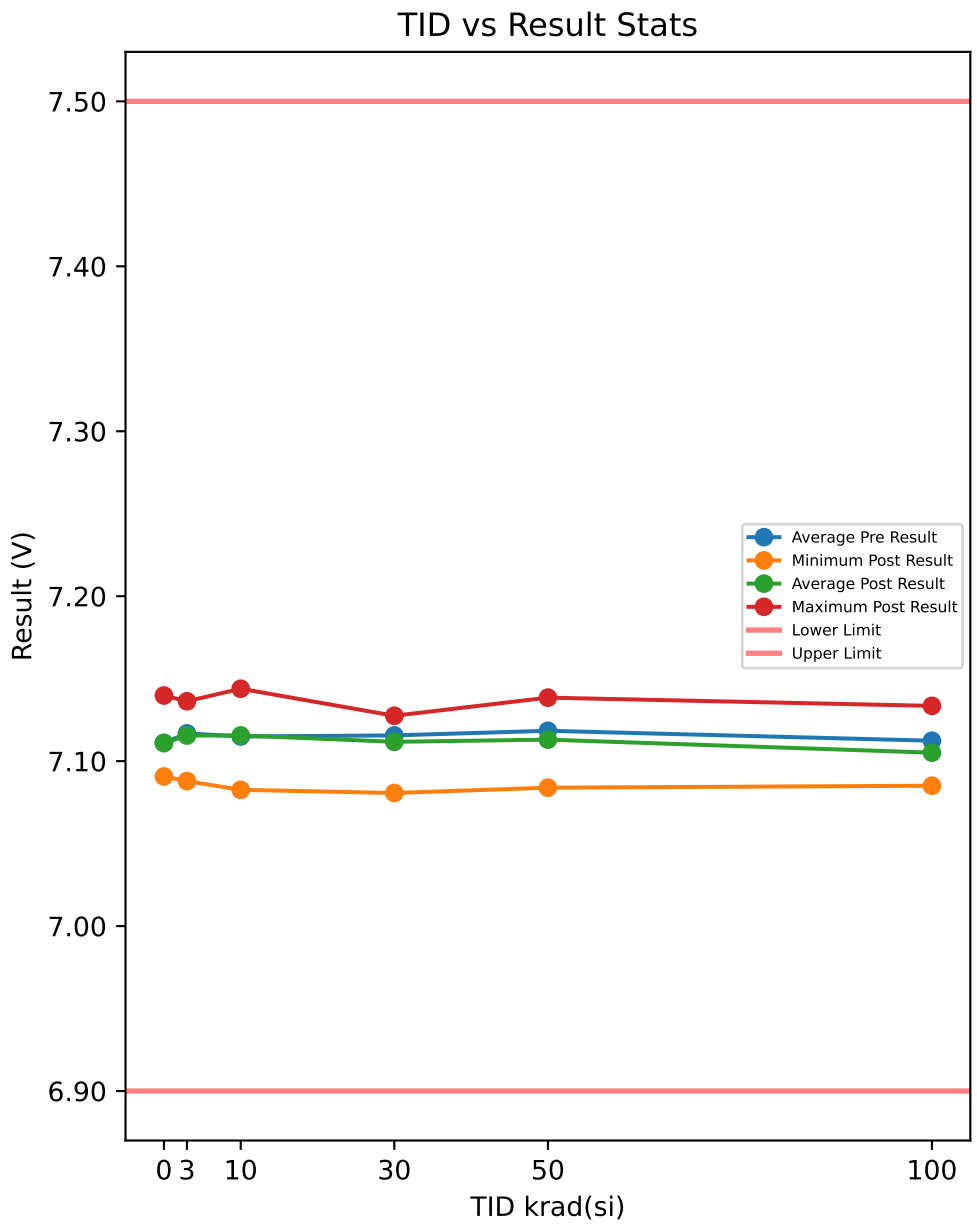
Test Results (Lower Limit = 7.2, Upper Limit = 7.8 (V))

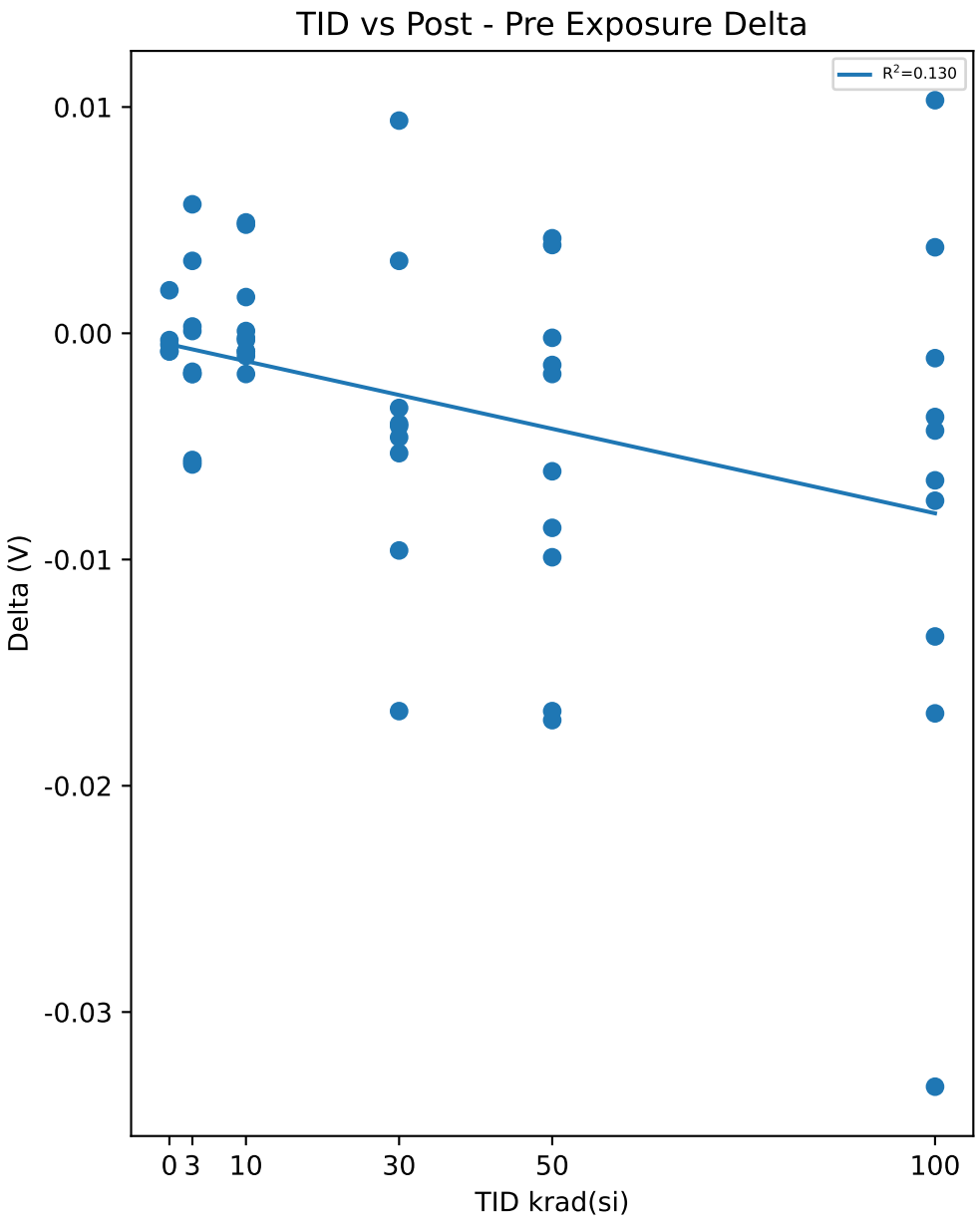
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	7.4236	7.4209	-0.0027
411	100	Unbiased	7.4036	7.4085	0.0049
444	30	Unbiased	7.441	7.4341	-0.0069
454	10	Unbiased	7.4235	7.4247	0.0012
491	3	Unbiased	7.4021	7.3981	-0.004
500	100	Unbiased	7.4324	7.4385	0.0061
534	100	Biased	7.4229	7.4147	-0.0082
558	0	Correlation	7.3989	7.3988	-0.0001
563	100	Biased	7.4129	7.4046	-0.0083
570	3	Unbiased	7.4235	7.4222	-0.0013
614	10	Unbiased	7.4288	7.4331	0.0043
675	3	Biased	7.4118	7.4159	0.0041
713	100	Unbiased	7.4275	7.416	-0.0115
744	50	Biased	7.4289	7.4172	-0.0117
799	50	Biased	7.426	7.4171	-0.0089
842	30	Unbiased	7.3865	7.3873	0.0008
889	3	Unbiased	7.4344	7.4299	-0.0045
901	3	Biased	7.4273	7.4288	0.0015
930	50	Unbiased	7.4349	7.4156	-0.0193
968	100	Unbiased	7.3999	7.3947	-0.0052
976	100	Unbiased	7.4316	7.4173	-0.0143
981	3	Biased	7.4222	7.4198	-0.0024
1003	10	Biased	7.3861	7.3878	0.0017
1039	3	Biased	7.4329	7.4299	-0.003
1053	100	Biased	7.4277	7.3871	-0.0406
1056	0	Correlation	7.3954	7.3959	0.0005
1072	10	Biased	7.4316	7.4384	0.0068
1095	50	Unbiased	7.441	7.4472	0.0062
1099	0	Correlation	7.4533	7.4535	0.0002
1113	3	Biased	7.43	7.4259	-0.0041
1142	10	Unbiased	7.4117	7.4106	-0.0011
1154	10	Biased	7.4145	7.4131	-0.0014
1215	50	Unbiased	7.4129	7.4159	0.003
1222	100	Biased	7.4214	7.4093	-0.0121
1229	50	Unbiased	7.4185	7.4253	0.0068
1255	3	Unbiased	7.4419	7.4432	0.0013
1331	30	Unbiased	7.4198	7.4234	0.0036
1359	30	Biased	7.4304	7.4168	-0.0136
1375	30	Unbiased	7.4223	7.4229	0.0006
1398	30	Biased	7.4207	7.4103	-0.0104
1411	50	Biased	7.4533	7.4487	-0.0046
1465	10	Unbiased	7.4502	7.451	0.0008
1474	50	Biased	7.4026	7.3859	-0.0167
1504	50	Biased	7.4088	7.4048	-0.004
1540	100	Biased	7.4236	7.4013	-0.0223
1554	3	Unbiased	7.4104	7.4037	-0.0067
1662	30	Biased	7.4303	7.4259	-0.0044
1679	10	Biased	7.4395	7.4319	-0.0076
1697	10	Biased	7.4316	7.4382	0.0066
1703	30	Biased	7.4319	7.4247	-0.0072
1704	10	Unbiased	7.4093	7.4171	0.0078
1736	30	Biased	7.4197	7.4175	-0.0022
1737	0	Correlation	7.416	7.4157	-0.0003
1748	0	Correlation	7.4402	7.4412	0.001

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	7.3954	7.4208	7.4533	0.025399	7.3959	7.421	7.4535	0.02557	-0.0003	0.00026	0.001	0.00051284
3	7.4021	7.4237	7.4419	0.012339	7.3981	7.4217	7.4432	0.013263	-0.0067	-0.00191	0.0041	0.0033111
10	7.3861	7.4227	7.4502	0.01808	7.3878	7.4246	7.451	0.018064	-0.0076	0.00191	0.0078	0.0046969
30	7.3865	7.4225	7.441	0.015282	7.3873	7.4181	7.4341	0.013337	-0.0136	-0.0044111	0.0036	0.0056525
50	7.4026	7.4251	7.4533	0.015369	7.3859	7.4199	7.4487	0.018374	-0.0193	-0.00519	0.0068	0.0090446
100	7.3999	7.4204	7.4324	0.011301	7.3871	7.4092	7.4385	0.014076	-0.0406	-0.01115	0.0061	0.013375

Device Test: 17.17 UVLO|VIN_FALL/VIN/4.5/4.5/0/1000/4.5/100kHz//@VIN_UVLO_FALL_503X





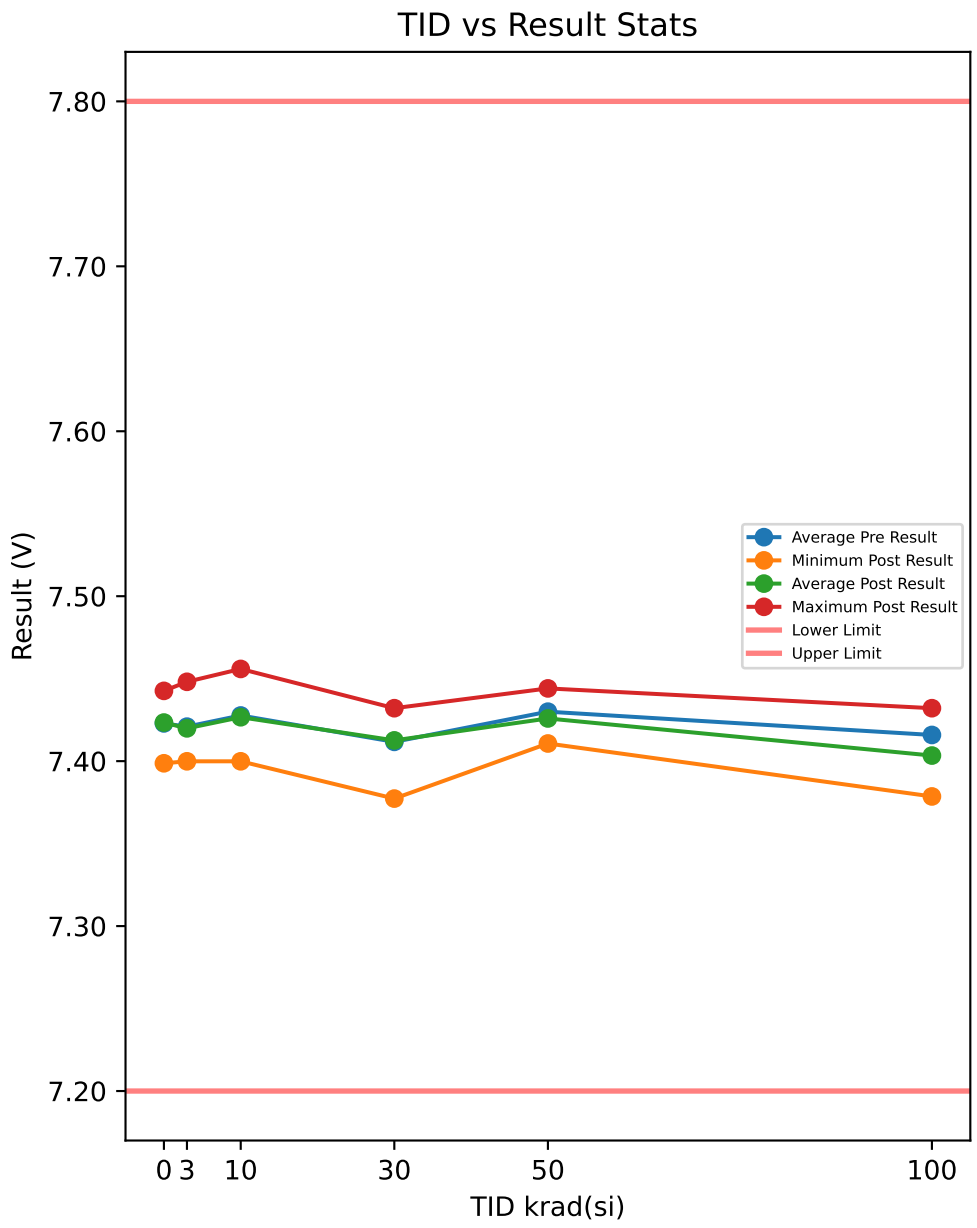
Test Results (Lower Limit = 6.9, Upper Limit = 7.5 (V))

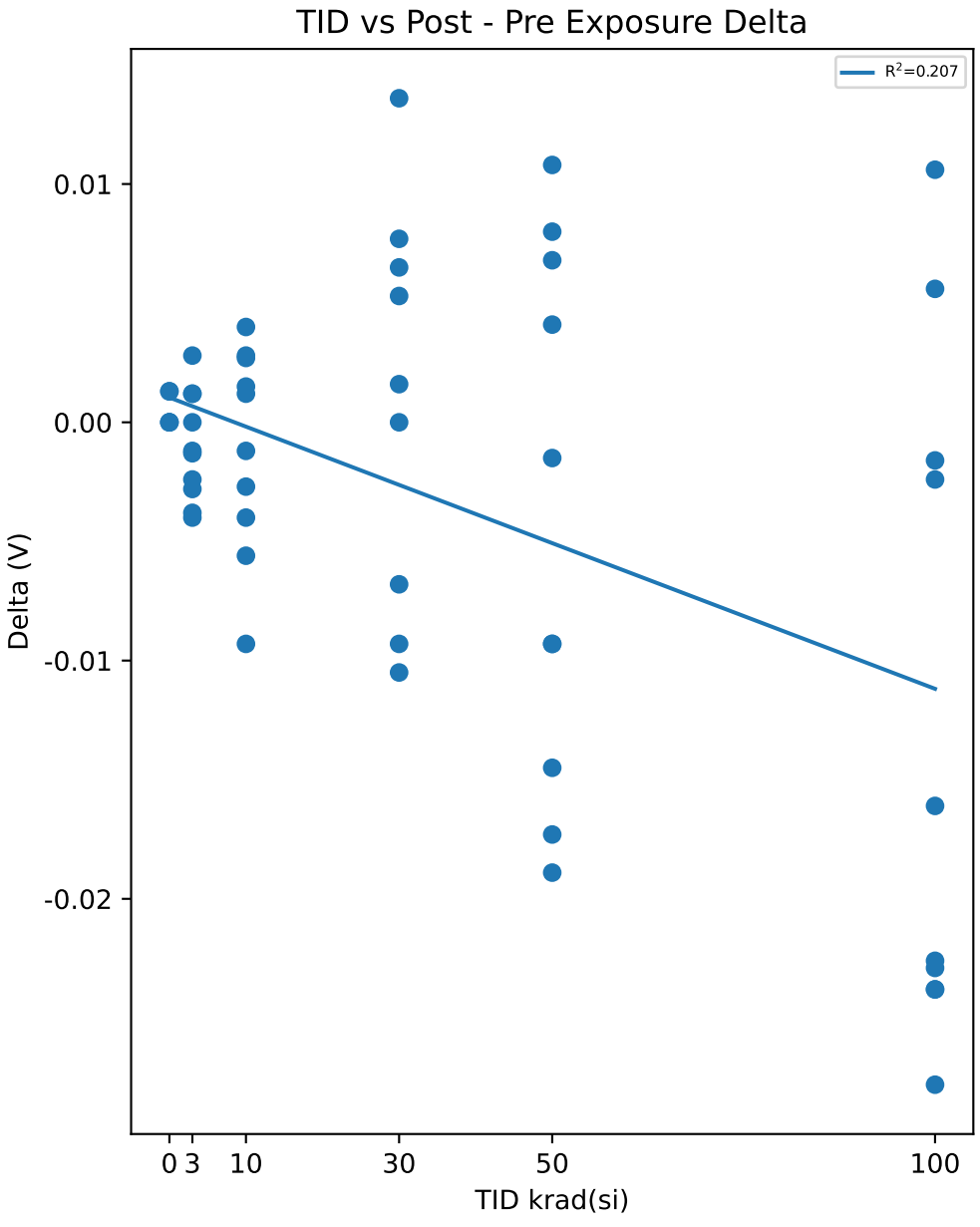
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	7.1091	7.113	0.0039
411	100	Unbiased	7.0938	7.1041	0.0103
444	30	Unbiased	7.1328	7.1275	-0.0053
454	10	Unbiased	7.1128	7.1129	0.0001
491	3	Unbiased	7.0897	7.0879	-0.0018
500	100	Unbiased	7.1297	7.1335	0.0038
534	100	Biased	7.1178	7.1167	-0.0011
558	0	Correlation	7.091	7.0907	-0.0003
563	100	Biased	7.1047	7.101	-0.0037
570	3	Unbiased	7.1181	7.1163	-0.0018
614	10	Unbiased	7.1228	7.122	-0.0008
675	3	Biased	7.1116	7.1173	0.0057
713	100	Unbiased	7.1156	7.1113	-0.0043
744	50	Biased	7.1144	7.1126	-0.0018
799	50	Biased	7.1199	7.1138	-0.0061
842	30	Unbiased	7.0775	7.0807	0.0032
889	3	Unbiased	7.1321	7.1264	-0.0057
901	3	Biased	7.1222	7.1225	0.0003
930	50	Unbiased	7.1309	7.1138	-0.0171
968	100	Unbiased	7.0925	7.0851	-0.0074
976	100	Unbiased	7.1209	7.1144	-0.0065
981	3	Biased	7.1128	7.1129	0.0001
1003	10	Biased	7.0844	7.0826	-0.0018
1039	3	Biased	7.1228	7.1211	-0.0017
1053	100	Biased	7.1188	7.0855	-0.0333
1056	0	Correlation	7.0919	7.0938	0.0019
1072	10	Biased	7.125	7.1298	0.0048
1095	50	Unbiased	7.1387	7.1385	-0.0002
1099	0	Correlation	7.1406	7.1398	-0.0008
1113	3	Biased	7.1228	7.117	-0.0058
1142	10	Unbiased	7.1016	7.1013	-0.0003
1154	10	Biased	7.1137	7.1127	-0.001
1215	50	Unbiased	7.1084	7.107	-0.0014
1222	100	Biased	7.1144	7.101	-0.0134
1229	50	Unbiased	7.1153	7.1195	0.0042
1255	3	Unbiased	7.1331	7.1363	0.0032
1331	30	Unbiased	7.1113	7.1207	0.0094
1359	30	Biased	7.1266	7.1099	-0.0167
1375	30	Unbiased	7.1194	7.1154	-0.004
1398	30	Biased	7.1153	7.1057	-0.0096
1411	50	Biased	7.1434	7.1348	-0.0086
1465	10	Unbiased	7.1447	7.1439	-0.0008
1474	50	Biased	7.1006	7.0839	-0.0167
1504	50	Biased	7.1034	7.0935	-0.0099
1540	100	Biased	7.1156	7.0988	-0.0168
1554	3	Unbiased	7.1031	7.0975	-0.0056
1662	30	Biased	7.1268	7.1227	-0.0041
1679	10	Biased	7.1194	7.121	0.0016
1697	10	Biased	7.1224	7.1222	-0.0002
1703	30	Biased	7.1184	7.1138	-0.0046
1704	10	Unbiased	7.1025	7.1074	0.0049
1736	30	Biased	7.1124	7.1091	-0.0033
1737	0	Correlation	7.1062	7.1057	-0.0005
1748	0	Correlation	7.1256	7.1248	-0.0008

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	7.091	7.1111	7.1406	0.021663	7.0907	7.111	7.1398	0.020952	-0.0008	-0.0001	0.0019	0.001138
3	7.0897	7.1168	7.1331	0.013198	7.0879	7.1155	7.1363	0.013866	-0.0058	-0.00131	0.0057	0.0038374
10	7.0844	7.1149	7.1447	0.016315	7.0826	7.1156	7.1439	0.016642	-0.0018	0.00065	0.0049	0.0023815
30	7.0775	7.1156	7.1328	0.015988	7.0807	7.1117	7.1275	0.013586	-0.0167	-0.0038889	0.0094	0.0073014
50	7.1006	7.1184	7.1434	0.014718	7.0839	7.113	7.1385	0.016439	-0.0171	-0.00537	0.0042	0.0076754
100	7.0925	7.1124	7.1297	0.011867	7.0851	7.1051	7.1335	0.014623	-0.0333	-0.00724	0.0103	0.012007

Device Test: 17.19 UVLO|PVIN_RISE/PVIN/4.5/4.5/0/1000/4.5/500kHz//@PVIN_UVLO_RISE_503X





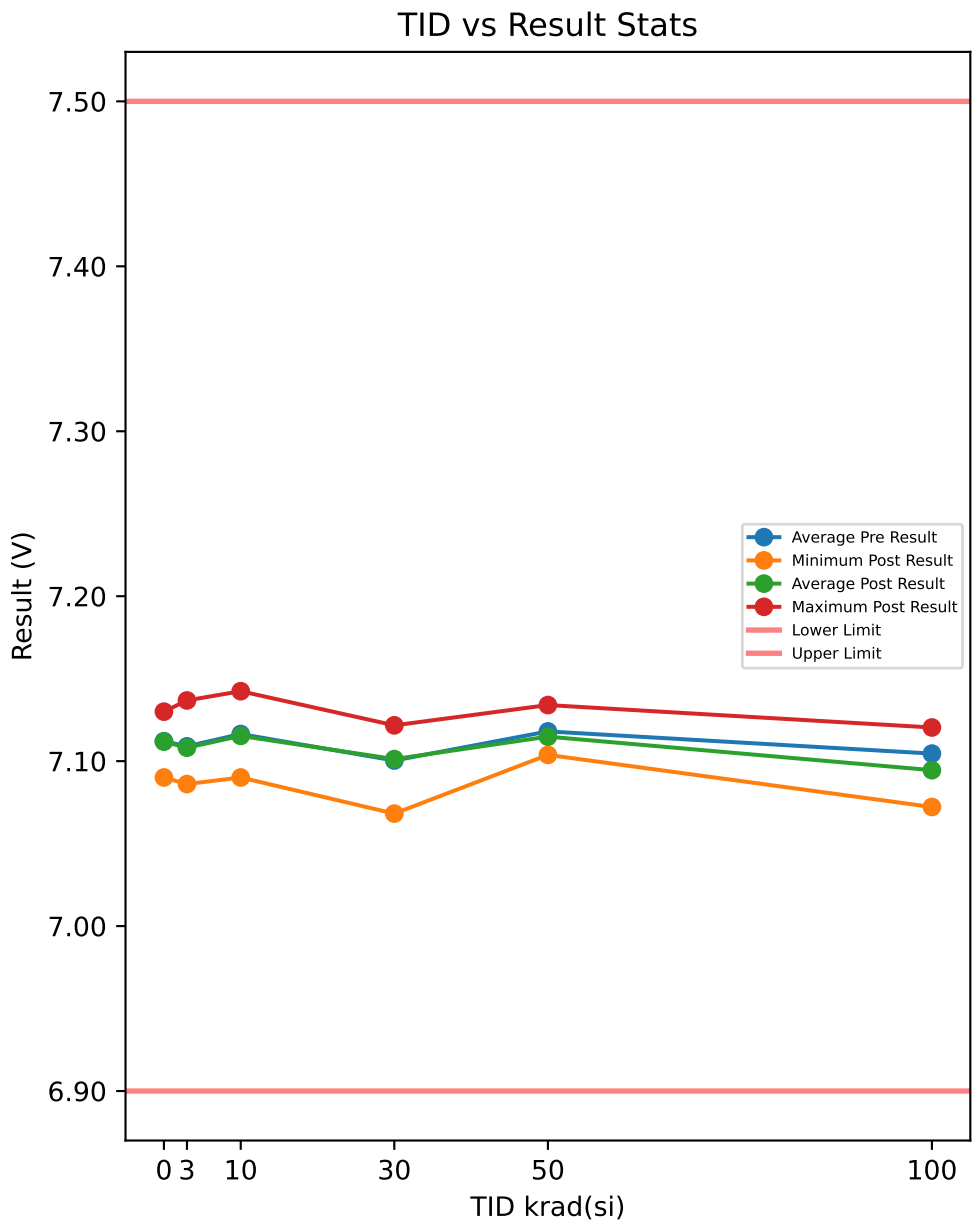
Test Results (Lower Limit = 7.2, Upper Limit = 7.8 (V))

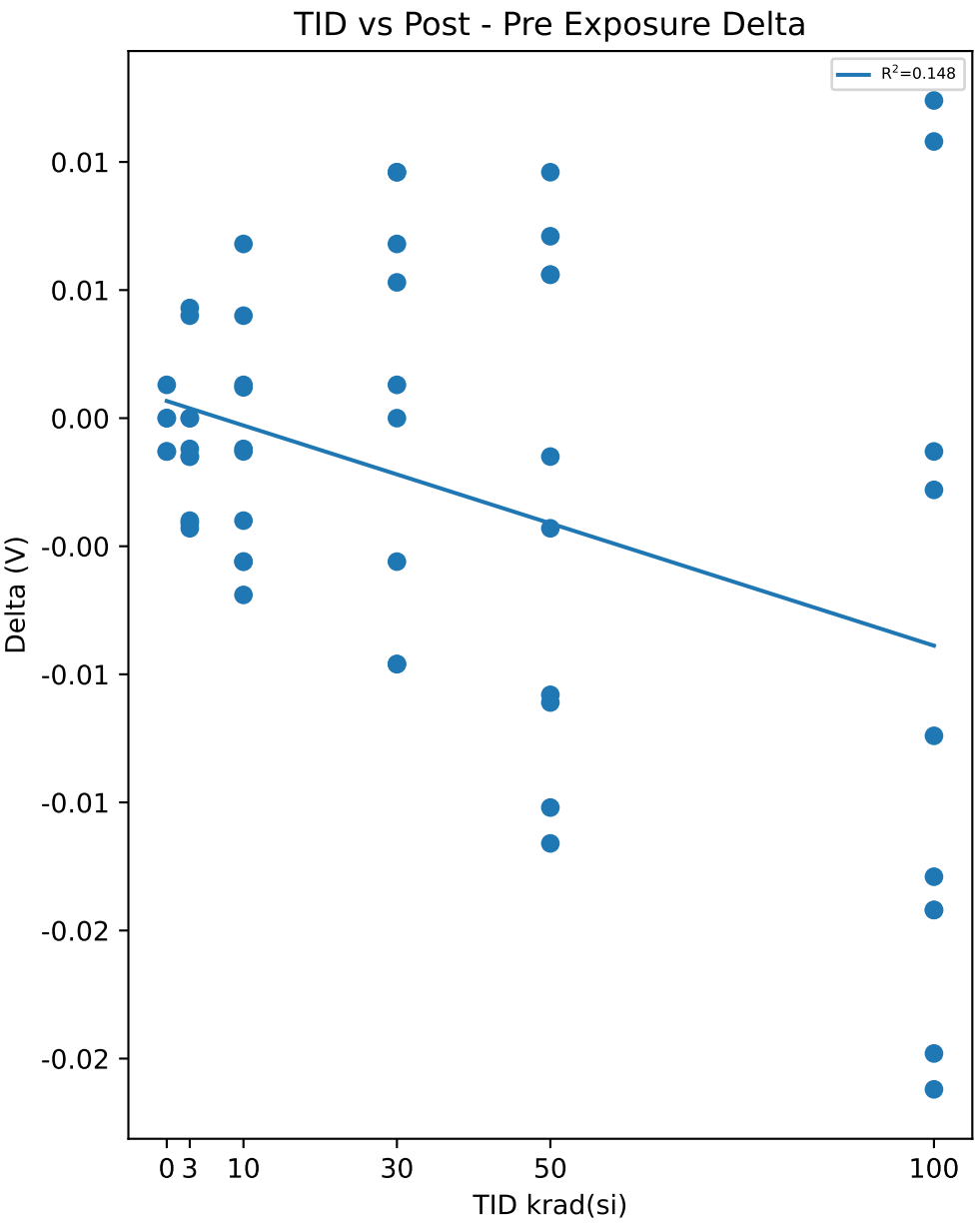
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	7.4212	7.4253	0.0041
411	100	Unbiased	7.4092	7.4148	0.0056
444	30	Unbiased	7.4386	7.4293	-0.0093
454	10	Unbiased	7.428	7.4253	-0.0027
491	3	Unbiased	7.4401	7.4401	0
500	100	Unbiased	7.4345	7.4321	-0.0024
534	100	Biased	7.42	7.3974	-0.0226
558	0	Correlation	7.3974	7.3987	0.0013
563	100	Biased	7.4148	7.3987	-0.0161
570	3	Unbiased	7.4172	7.4148	-0.0024
614	10	Unbiased	7.4333	7.4321	-0.0012
675	3	Biased	7.42	7.4212	0.0012
713	100	Unbiased	7.4015	7.3999	-0.0016
744	50	Biased	7.4614	7.4441	-0.0173
799	50	Biased	7.4386	7.4293	-0.0093
842	30	Unbiased	7.3773	7.3773	0
889	3	Unbiased	7.408	7.4067	-0.0013
901	3	Biased	7.424	7.4228	-0.0012
930	50	Unbiased	7.4321	7.4132	-0.0189
968	100	Unbiased	7.3974	7.408	0.0106
976	100	Unbiased	7.4333	7.4055	-0.0278
981	3	Biased	7.4148	7.416	0.0012
1003	10	Biased	7.4092	7.3999	-0.0093
1039	3	Biased	7.4039	7.3999	-0.004
1053	100	Biased	7.4015	7.3786	-0.0229
1056	0	Correlation	7.4039	7.4039	0
1072	10	Biased	7.4345	7.4373	0.0028
1095	50	Unbiased	7.4172	7.424	0.0068
1099	0	Correlation	7.4345	7.4345	0
1113	3	Biased	7.412	7.4092	-0.0028
1142	10	Unbiased	7.4092	7.4107	0.0015
1154	10	Biased	7.4599	7.4559	-0.004
1215	50	Unbiased	7.4321	7.4401	0.008
1222	100	Biased	7.4293	7.4055	-0.0238
1229	50	Unbiased	7.4172	7.428	0.0108
1255	3	Unbiased	7.4519	7.4481	-0.0038
1331	30	Unbiased	7.4092	7.4228	0.0136
1359	30	Biased	7.4212	7.4107	-0.0105
1375	30	Unbiased	7.4107	7.416	0.0053
1398	30	Biased	7.4107	7.4172	0.0065
1411	50	Biased	7.4333	7.4188	-0.0145
1465	10	Unbiased	7.4092	7.4132	0.004
1474	50	Biased	7.4268	7.4253	-0.0015
1504	50	Biased	7.42	7.4107	-0.0093
1540	100	Biased	7.4172	7.3934	-0.0238
1554	3	Unbiased	7.4172	7.42	0.0028
1662	30	Biased	7.4015	7.4092	0.0077
1679	10	Biased	7.4361	7.4305	-0.0056
1697	10	Biased	7.4321	7.4333	0.0012
1703	30	Biased	7.4055	7.3987	-0.0068
1704	10	Unbiased	7.4253	7.428	0.0027
1736	30	Biased	7.4305	7.4321	0.0016
1737	0	Correlation	7.4373	7.4373	0
1748	0	Correlation	7.4413	7.4426	0.0013

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	7.3974	7.4229	7.4413	0.020565	7.3987	7.4234	7.4426	0.020466	0	0.00052	0.0013	0.00071204
3	7.4039	7.4209	7.4519	0.014679	7.3999	7.4199	7.4481	0.014694	-0.004	-0.00103	0.0028	0.002292
10	7.4092	7.4277	7.4599	0.015765	7.3999	7.4266	7.4559	0.015678	-0.0093	-0.00106	0.004	0.0042968
30	7.3773	7.4117	7.4386	0.017683	7.3773	7.4126	7.4321	0.016772	-0.0105	0.0009	0.0136	0.0083129
50	7.4172	7.43	7.4614	0.013312	7.4107	7.4259	7.4441	0.010519	-0.0189	-0.00411	0.0108	0.011139
100	7.3974	7.4159	7.4345	0.013539	7.3786	7.4034	7.4321	0.01402	-0.0278	-0.01248	0.0106	0.014121

Device Test: 17.20 UVLO|PVIN_FALL/PVIN/4.5/4.5/0/1000/4.5/500kHz//@PVIN_UVLO_FALL_503X





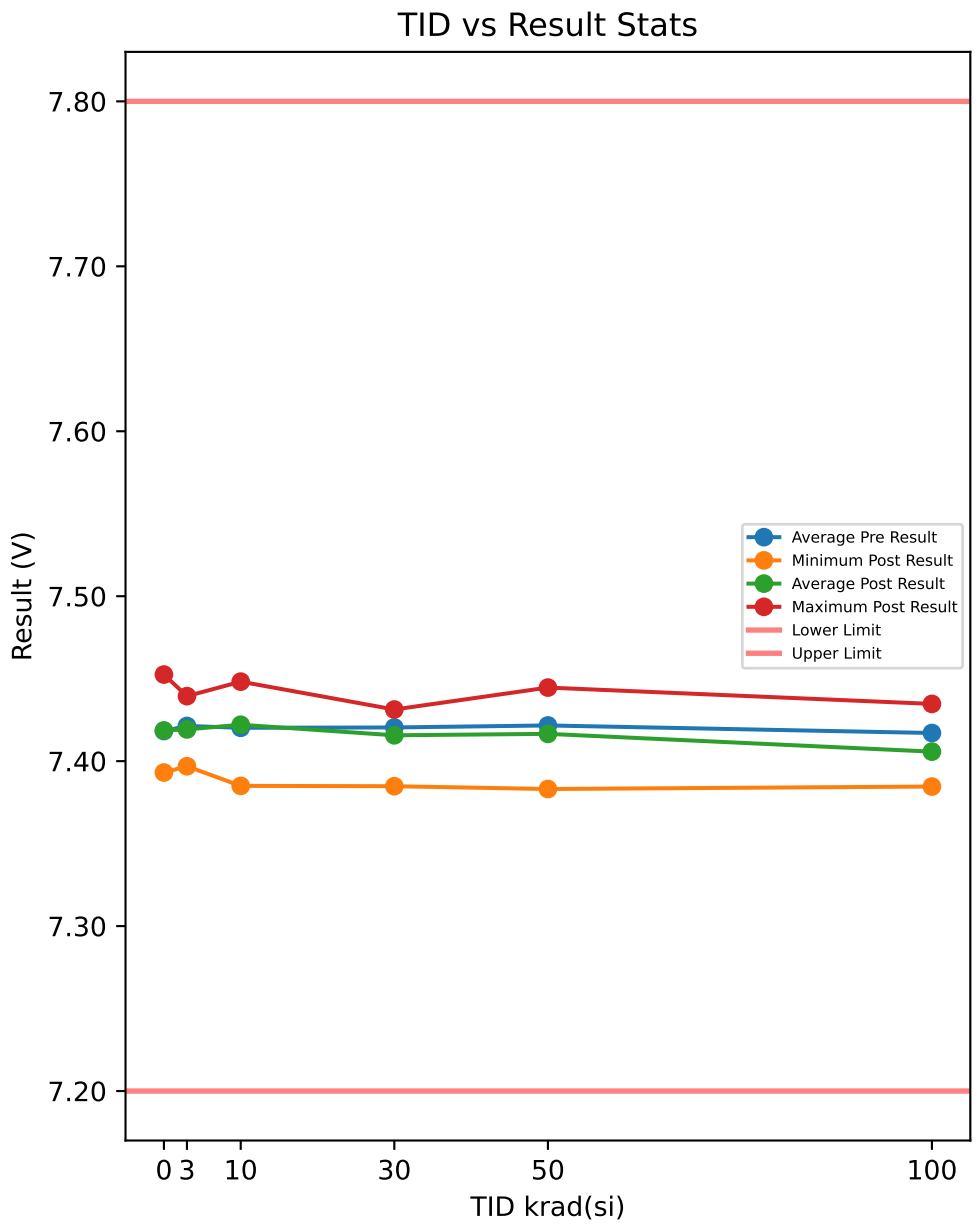
Test Results (Lower Limit = 6.9, Upper Limit = 7.5 (V))

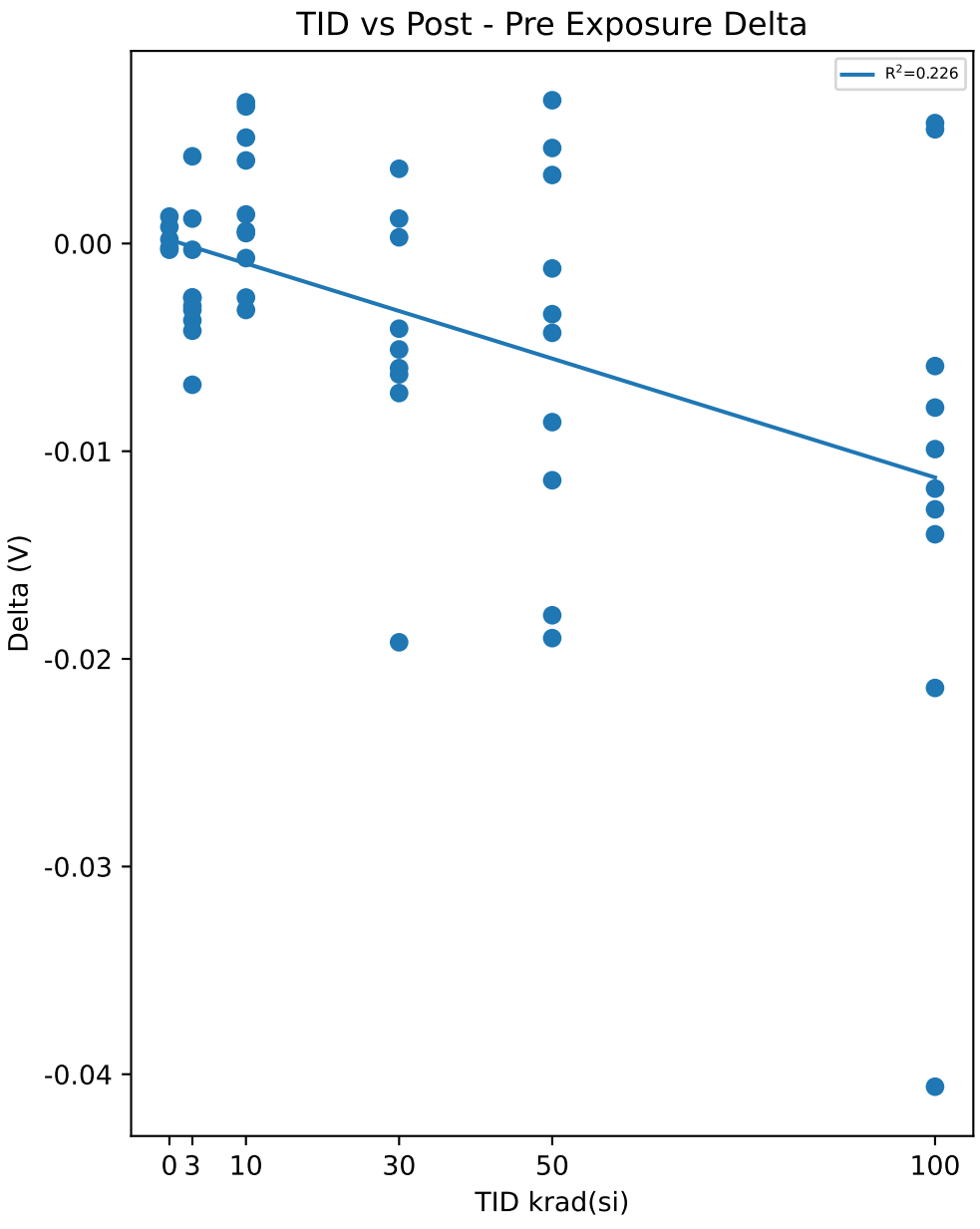
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	7.1065	7.1121	0.0056
411	100	Unbiased	7.1013	7.1121	0.0108
444	30	Unbiased	7.1245	7.1149	-0.0096
454	10	Unbiased	7.1189	7.1149	-0.004
491	3	Unbiased	7.13	7.1285	-0.0015
500	100	Unbiased	7.1232	7.1204	-0.0028
534	100	Biased	7.1093	7.0901	-0.0192
558	0	Correlation	7.0901	7.0901	0
563	100	Biased	7.1038	7.0914	-0.0124
570	3	Unbiased	7.1025	7.1013	-0.0012
614	10	Unbiased	7.1217	7.1204	-0.0013
675	3	Biased	7.1109	7.1109	0
713	100	Unbiased	7.0914	7.0901	-0.0013
744	50	Biased	7.1492	7.134	-0.0152
799	50	Biased	7.13	7.1189	-0.0111
842	30	Unbiased	7.0682	7.0682	0
889	3	Unbiased	7.0957	7.0942	-0.0015
901	3	Biased	7.1121	7.1121	0
930	50	Unbiased	7.1204	7.1038	-0.0166
968	100	Unbiased	7.0833	7.0957	0.0124
976	100	Unbiased	7.1177	7.0929	-0.0248
981	3	Biased	7.1038	7.1081	0.0043
1003	10	Biased	7.097	7.0901	-0.0069
1039	3	Biased	7.0901	7.0861	-0.004
1053	100	Biased	7.0901	7.0722	-0.0179
1056	0	Correlation	7.0942	7.0929	-0.0013
1072	10	Biased	7.1232	7.1272	0.004
1095	50	Unbiased	7.1038	7.1109	0.0071
1099	0	Correlation	7.1204	7.1217	0.0013
1113	3	Biased	7.1013	7.097	-0.0043
1142	10	Unbiased	7.0985	7.0997	0.0012
1154	10	Biased	7.148	7.1424	-0.0056
1215	50	Unbiased	7.1204	7.126	0.0056
1222	100	Biased	7.1204	7.0942	-0.0262
1229	50	Unbiased	7.1065	7.1161	0.0096
1255	3	Unbiased	7.1409	7.1368	-0.0041
1331	30	Unbiased	7.0997	7.1093	0.0096
1359	30	Biased	7.1081	7.0985	-0.0096
1375	30	Unbiased	7.0985	7.1038	0.0053
1398	30	Biased	7.0997	7.1065	0.0068
1411	50	Biased	7.1217	7.1109	-0.0108
1465	10	Unbiased	7.0985	7.1053	0.0068
1474	50	Biased	7.1136	7.1121	-0.0015
1504	50	Biased	7.1081	7.1038	-0.0043
1540	100	Biased	7.1053	7.0861	-0.0192
1554	3	Unbiased	7.1025	7.1065	0.004
1662	30	Biased	7.0901	7.0997	0.0096
1679	10	Biased	7.126	7.1204	-0.0056
1697	10	Biased	7.1189	7.1177	-0.0012
1703	30	Biased	7.0942	7.0886	-0.0056
1704	10	Unbiased	7.1136	7.1149	0.0013
1736	30	Biased	7.1204	7.1217	0.0013
1737	0	Correlation	7.1245	7.1245	0
1748	0	Correlation	7.1313	7.13	-0.0013

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	7.0901	7.1121	7.1313	0.01868	7.0901	7.1118	7.13	0.018832	-0.0013	-0.00026	0.0013	0.0010877
3	7.0901	7.109	7.1409	0.015552	7.0861	7.1082	7.1368	0.015322	-0.0043	-0.00083	0.0043	0.0030703
10	7.097	7.1164	7.148	0.015644	7.0901	7.1153	7.1424	0.014577	-0.0069	-0.00113	0.0068	0.0044977
30	7.0682	7.1004	7.1245	0.016681	7.0682	7.1012	7.1217	0.015675	-0.0096	0.00086667	0.0096	0.0076588
50	7.1038	7.118	7.1492	0.013849	7.1038	7.1149	7.134	0.0094254	-0.0166	-0.00316	0.0096	0.0098467
100	7.0833	7.1046	7.1232	0.013497	7.0722	7.0945	7.1204	0.013337	-0.0262	-0.01006	0.0124	0.014067

Device Test: 17.22 UVLO|VIN_RISE/VIN/4.5/4.5/0/1000/4.5/500kHz//@VIN_UVLO_RISE_503X





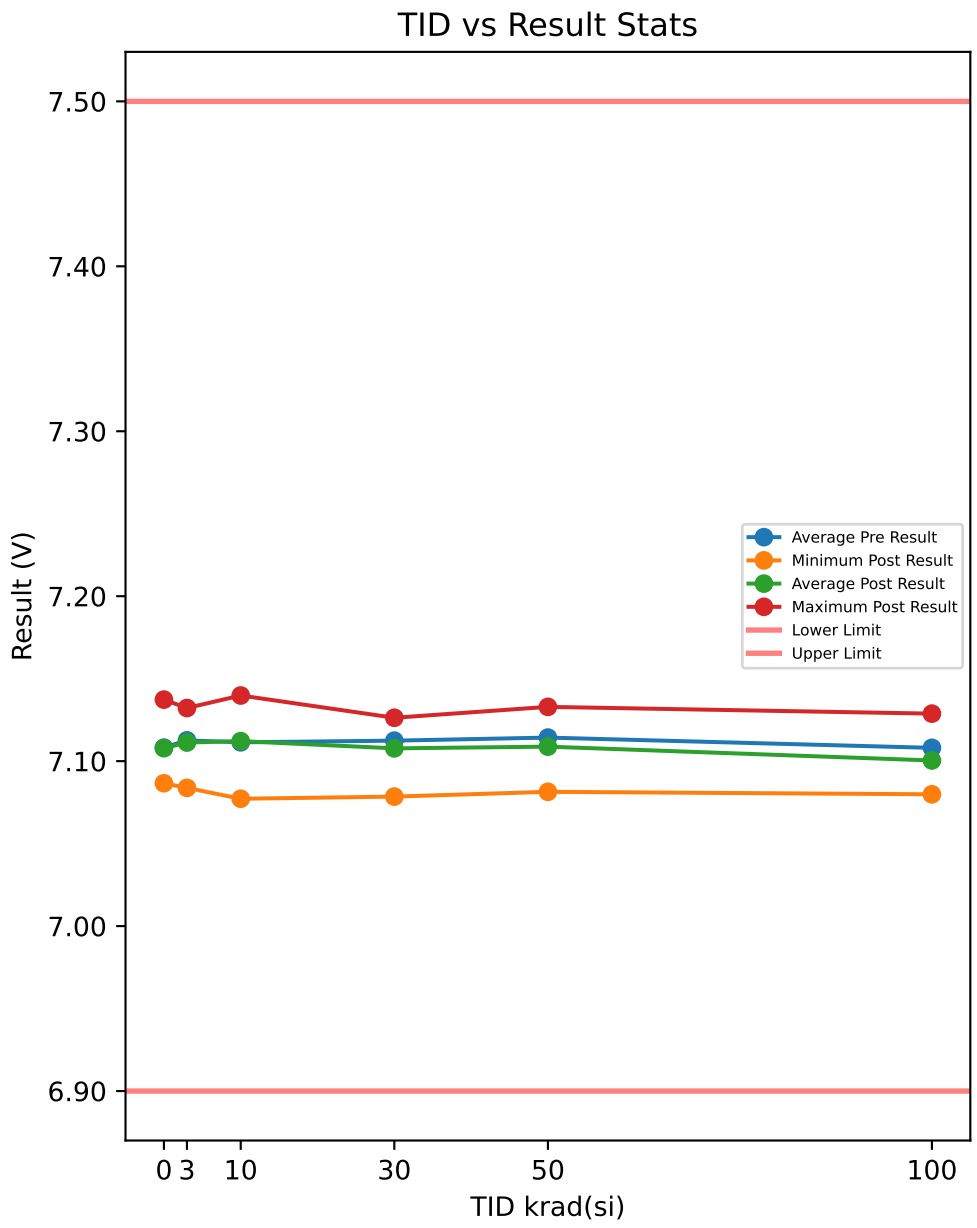
Test Results (Lower Limit = 7.2, Upper Limit = 7.8 (V))

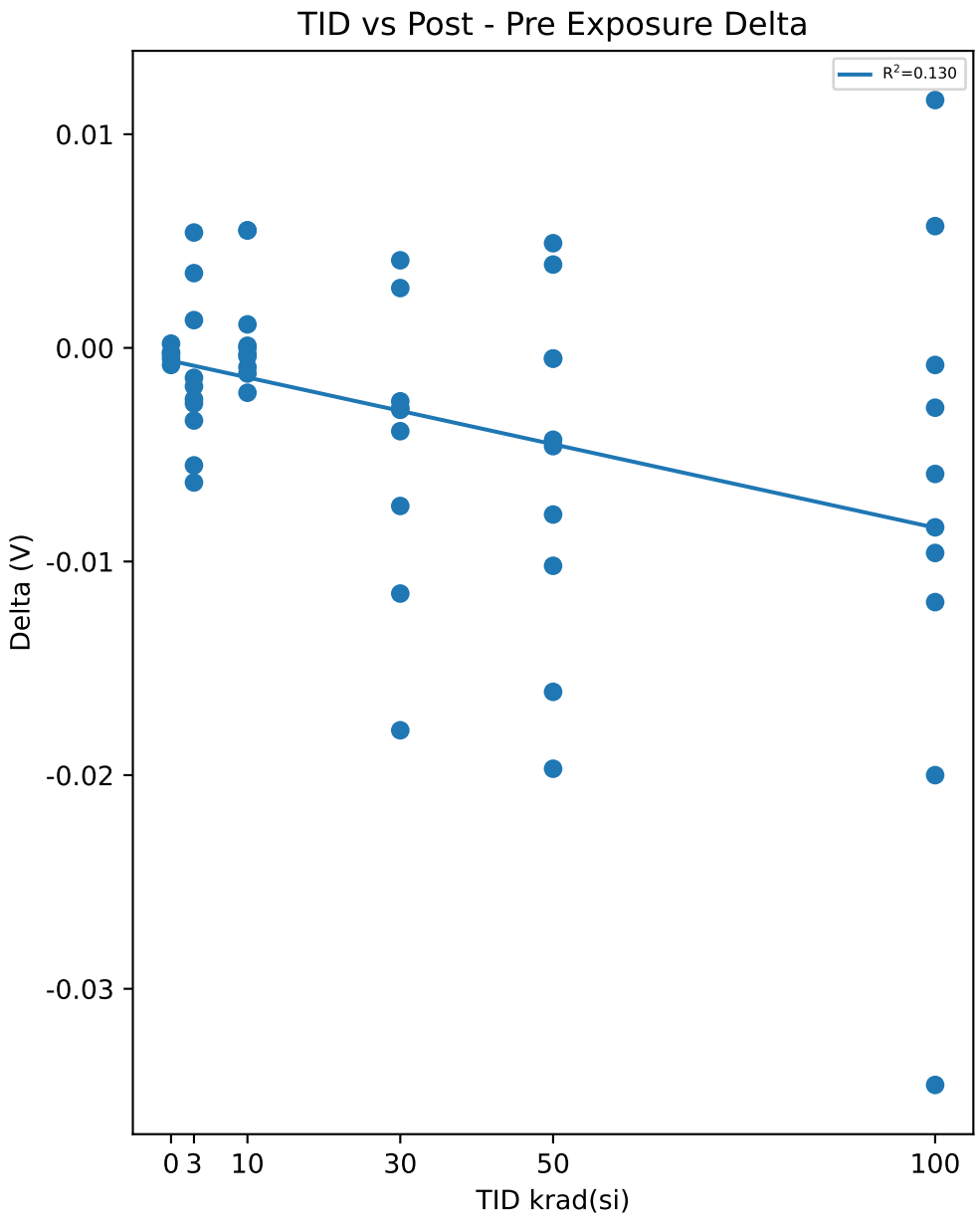
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	7.4199	7.4187	-0.0012
411	100	Unbiased	7.4018	7.4073	0.0055
444	30	Unbiased	7.4385	7.4313	-0.0072
454	10	Unbiased	7.4207	7.4213	0.0006
491	3	Unbiased	7.3999	7.3969	-0.003
500	100	Unbiased	7.4289	7.4347	0.0058
534	100	Biased	7.4198	7.4119	-0.0079
558	0	Correlation	7.3961	7.3959	-0.0002
563	100	Biased	7.4092	7.3993	-0.0099
570	3	Unbiased	7.4222	7.4196	-0.0026
614	10	Unbiased	7.4247	7.4287	0.004
675	3	Biased	7.4089	7.4131	0.0042
713	100	Unbiased	7.4235	7.4117	-0.0118
744	50	Biased	7.4249	7.4135	-0.0114
799	50	Biased	7.4232	7.4146	-0.0086
842	30	Unbiased	7.3836	7.3848	0.0012
889	3	Unbiased	7.4319	7.4287	-0.0032
901	3	Biased	7.426	7.4257	-0.0003
930	50	Unbiased	7.4308	7.4118	-0.019
968	100	Unbiased	7.3965	7.3906	-0.0059
976	100	Unbiased	7.4272	7.4132	-0.014
981	3	Biased	7.421	7.4173	-0.0037
1003	10	Biased	7.3836	7.385	0.0014
1039	3	Biased	7.4288	7.4262	-0.0026
1053	100	Biased	7.4252	7.3846	-0.0406
1056	0	Correlation	7.3929	7.3931	0.0002
1072	10	Biased	7.4288	7.4356	0.0068
1095	50	Unbiased	7.4369	7.4438	0.0069
1099	0	Correlation	7.4517	7.4525	0.0008
1113	3	Biased	7.4288	7.4246	-0.0042
1142	10	Unbiased	7.4088	7.4081	-0.0007
1154	10	Biased	7.4135	7.4103	-0.0032
1215	50	Unbiased	7.4101	7.4134	0.0033
1222	100	Biased	7.4174	7.4046	-0.0128
1229	50	Unbiased	7.4147	7.4193	0.0046
1255	3	Unbiased	7.4382	7.4394	0.0012
1331	30	Unbiased	7.417	7.4206	0.0036
1359	30	Biased	7.4323	7.4131	-0.0192
1375	30	Unbiased	7.4207	7.421	0.0003
1398	30	Biased	7.4182	7.4122	-0.006
1411	50	Biased	7.4489	7.4446	-0.0043
1465	10	Unbiased	7.4477	7.4482	0.0005
1474	50	Biased	7.401	7.3831	-0.0179
1504	50	Biased	7.406	7.4026	-0.0034
1540	100	Biased	7.4211	7.3997	-0.0214
1554	3	Unbiased	7.4076	7.4008	-0.0068
1662	30	Biased	7.4275	7.4224	-0.0051
1679	10	Biased	7.4373	7.4347	-0.0026
1697	10	Biased	7.4303	7.4354	0.0051
1703	30	Biased	7.4288	7.4225	-0.0063
1704	10	Unbiased	7.4068	7.4134	0.0066
1736	30	Biased	7.4172	7.4131	-0.0041
1737	0	Correlation	7.4132	7.4145	0.0013
1748	0	Correlation	7.4374	7.4371	-0.0003

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	7.3929	7.4183	7.4517	0.025712	7.3931	7.4186	7.4525	0.025854	-0.0003	0.00036	0.0013	0.00068044
3	7.3999	7.4213	7.4382	0.012169	7.3969	7.4192	7.4394	0.012891	-0.0068	-0.0021	0.0042	0.0030804
10	7.3836	7.4202	7.4477	0.018071	7.385	7.4221	7.4482	0.01835	-0.0032	0.00185	0.0068	0.0036155
30	7.3836	7.4204	7.4385	0.015697	7.3848	7.4157	7.4313	0.013073	-0.0192	-0.0047556	0.0036	0.0066138
50	7.401	7.4216	7.4489	0.014636	7.3831	7.4165	7.4446	0.017953	-0.019	-0.0051	0.0069	0.0090454
100	7.3965	7.4171	7.4289	0.011015	7.3846	7.4058	7.4347	0.013847	-0.0406	-0.0113	0.0058	0.013282

Device Test: 17.23 UVLO|VIN_FALL/VIN/4.5/4.5/0/1000/4.5/500kHz//@VIN_UVLO_FALL_503X





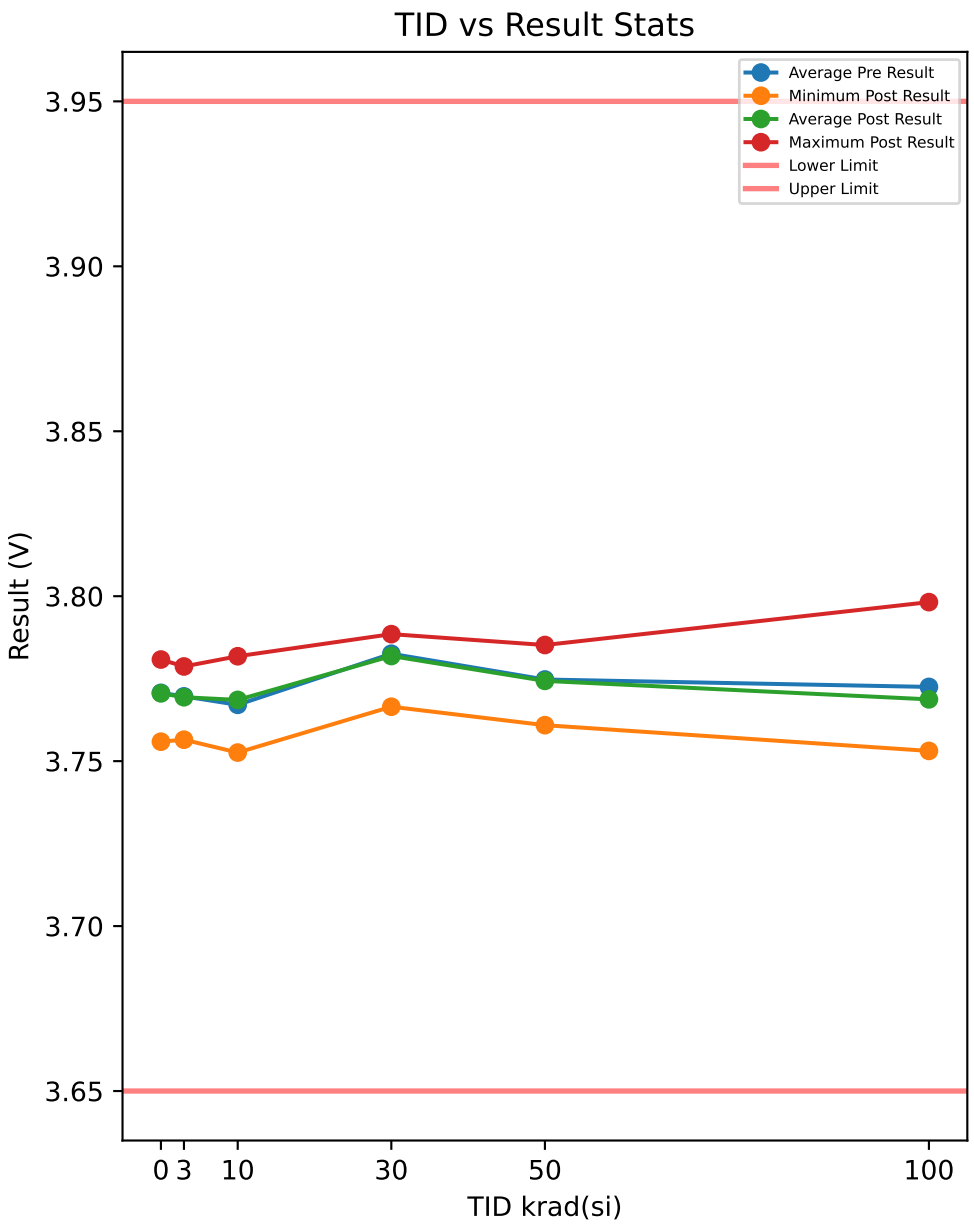
Test Results (Lower Limit = 6.9, Upper Limit = 7.5 (V))

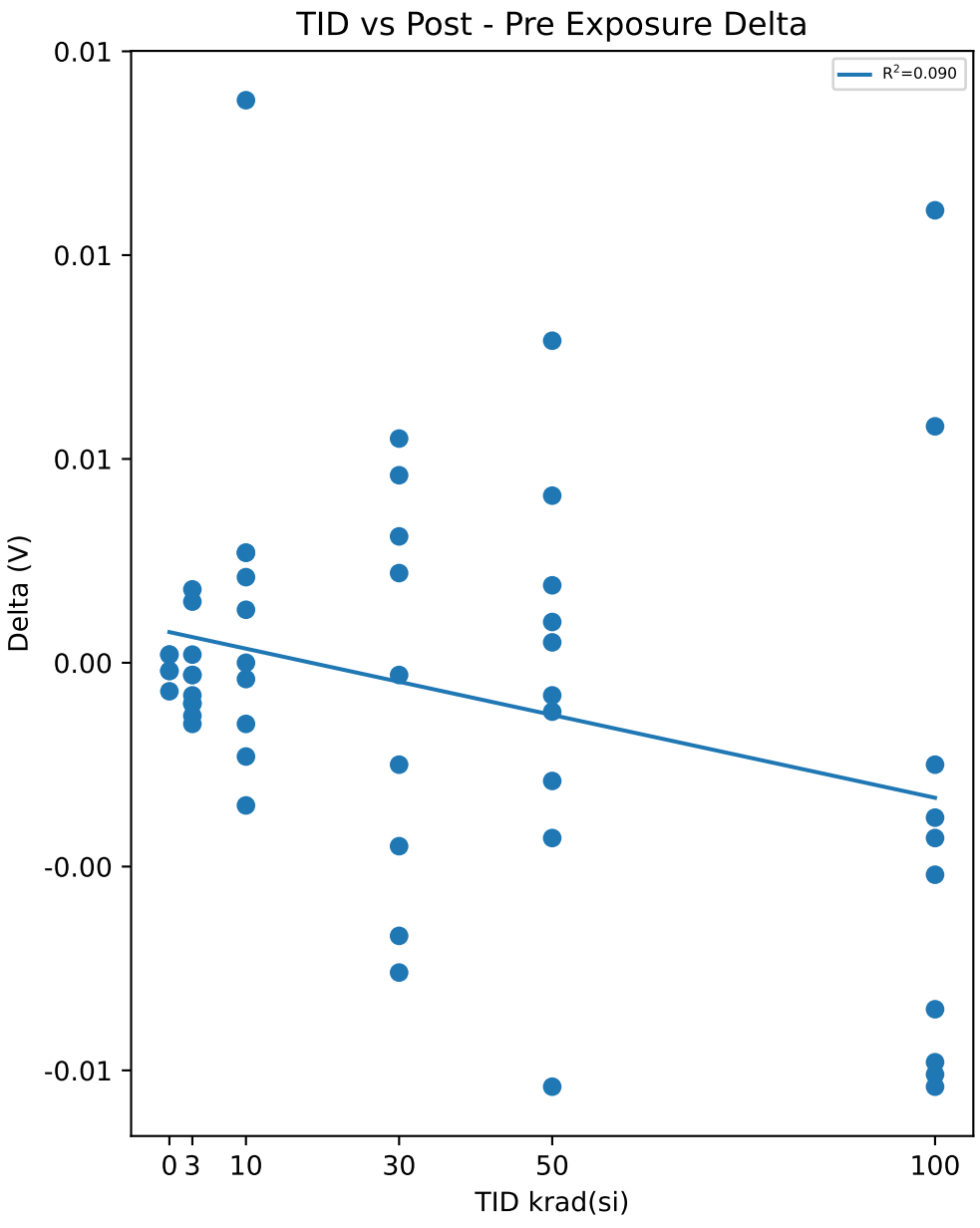
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	7.105	7.1099	0.0049
411	100	Unbiased	7.09	7.1016	0.0116
444	30	Unbiased	7.1291	7.1263	-0.0028
454	10	Unbiased	7.1113	7.1104	-0.0009
491	3	Unbiased	7.0872	7.0838	-0.0034
500	100	Unbiased	7.1231	7.1288	0.0057
534	100	Biased	7.1128	7.112	-0.0008
558	0	Correlation	7.0869	7.0866	-0.0003
563	100	Biased	7.0991	7.0963	-0.0028
570	3	Unbiased	7.1156	7.1101	-0.0055
614	10	Unbiased	7.1196	7.1192	-0.0004
675	3	Biased	7.106	7.1114	0.0054
713	100	Unbiased	7.1128	7.1044	-0.0084
744	50	Biased	7.1131	7.1088	-0.0043
799	50	Biased	7.1156	7.111	-0.0046
842	30	Unbiased	7.0757	7.0785	0.0028
889	3	Unbiased	7.1249	7.1223	-0.0026
901	3	Biased	7.12	7.1182	-0.0018
930	50	Unbiased	7.1266	7.1069	-0.0197
968	100	Unbiased	7.0881	7.0822	-0.0059
976	100	Unbiased	7.1168	7.1072	-0.0096
981	3	Biased	7.1087	7.11	0.0013
1003	10	Biased	7.0772	7.0772	0
1039	3	Biased	7.1169	7.1155	-0.0014
1053	100	Biased	7.1144	7.0799	-0.0345
1056	0	Correlation	7.0906	7.0898	-0.0008
1072	10	Biased	7.1209	7.1264	0.0055
1095	50	Unbiased	7.1334	7.1329	-0.0005
1099	0	Correlation	7.1378	7.1373	-0.0005
1113	3	Biased	7.1193	7.113	-0.0063
1142	10	Unbiased	7.0991	7.0988	-0.0003
1154	10	Biased	7.1088	7.1099	0.0011
1215	50	Unbiased	7.1047	7.1042	-0.0005
1222	100	Biased	7.1091	7.0972	-0.0119
1229	50	Unbiased	7.1087	7.1126	0.0039
1255	3	Unbiased	7.1287	7.1322	0.0035
1331	30	Unbiased	7.1088	7.1129	0.0041
1359	30	Biased	7.1237	7.1058	-0.0179
1375	30	Unbiased	7.115	7.1125	-0.0025
1398	30	Biased	7.1128	7.1013	-0.0115
1411	50	Biased	7.1394	7.1292	-0.0102
1465	10	Unbiased	7.1419	7.1398	-0.0021
1474	50	Biased	7.0975	7.0814	-0.0161
1504	50	Biased	7.0988	7.091	-0.0078
1540	100	Biased	7.1144	7.0944	-0.02
1554	3	Unbiased	7.0987	7.0963	-0.0024
1662	30	Biased	7.1212	7.1183	-0.0029
1679	10	Biased	7.1194	7.1182	-0.0012
1697	10	Biased	7.1181	7.1182	0.0001
1703	30	Biased	7.114	7.1101	-0.0039
1704	10	Unbiased	7.0978	7.1033	0.0055
1736	30	Biased	7.1115	7.1041	-0.0074
1737	0	Correlation	7.1031	7.1029	-0.0002
1748	0	Correlation	7.1225	7.1227	0.0002

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	7.0869	7.1082	7.1378	0.021622	7.0866	7.1079	7.1373	0.021735	-0.0008	-0.00032	0.0002	0.00037014
3	7.0872	7.1126	7.1287	0.012626	7.0838	7.1113	7.1322	0.013376	-0.0063	-0.00132	0.0054	0.0037252
10	7.0772	7.1114	7.1419	0.01735	7.0772	7.1121	7.1398	0.01692	-0.0021	0.00073	0.0055	0.0026521
30	7.0757	7.1124	7.1291	0.015224	7.0785	7.1078	7.1263	0.013343	-0.0179	-0.0046667	0.0041	0.0068354
50	7.0975	7.1143	7.1394	0.01446	7.0814	7.1088	7.1329	0.015311	-0.0197	-0.00549	0.0049	0.0080977
100	7.0881	7.1081	7.1231	0.011709	7.0799	7.1004	7.1288	0.014218	-0.0345	-0.00766	0.0116	0.012988

Device Test: 17.7 UVLO|VLDO_RISE/VLDO/4.5/4.5/0/1000/4.5/100kHz//@VLDO_UVLO_RISE





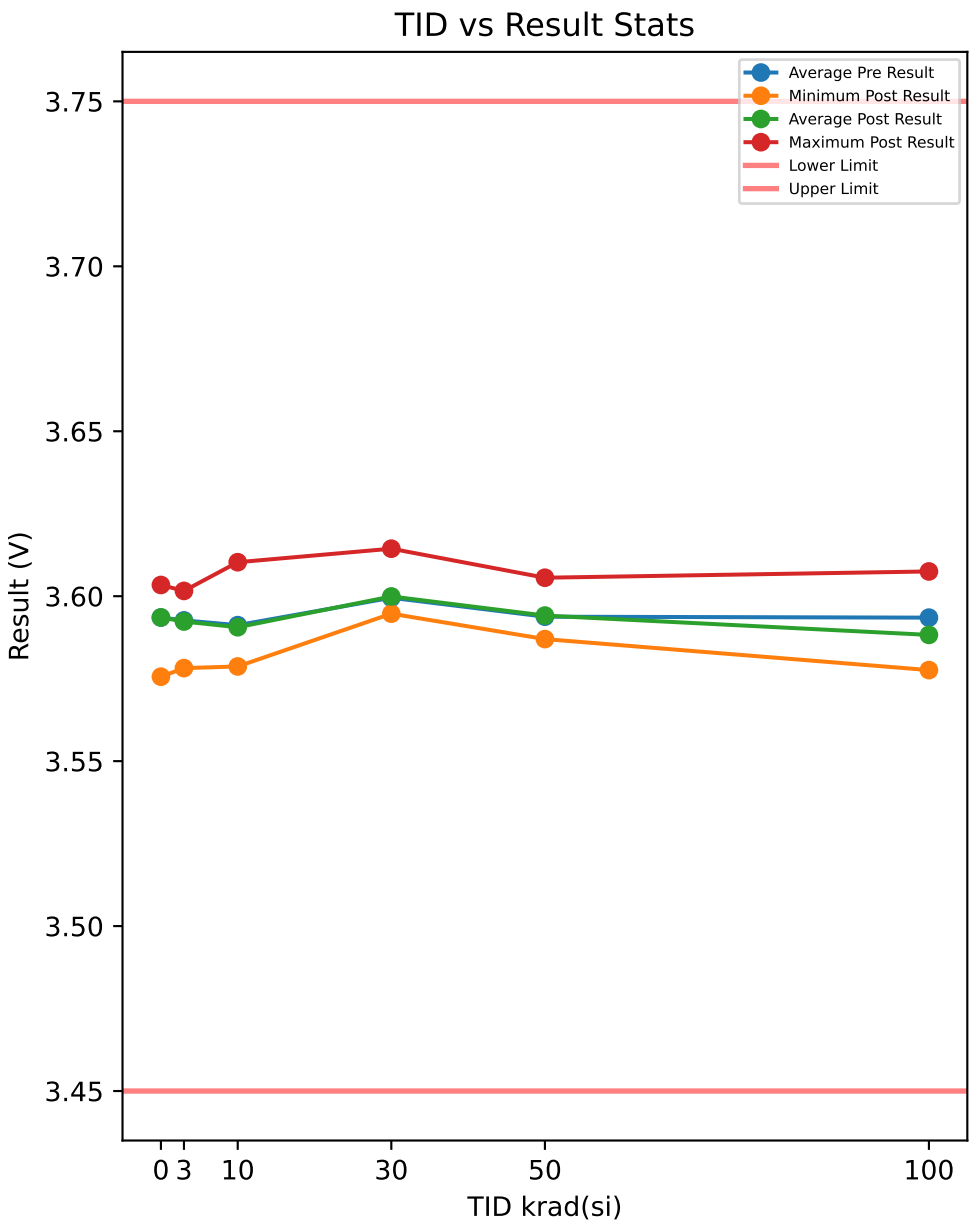
Test Results (Lower Limit = 3.65, Upper Limit = 3.95 (V))

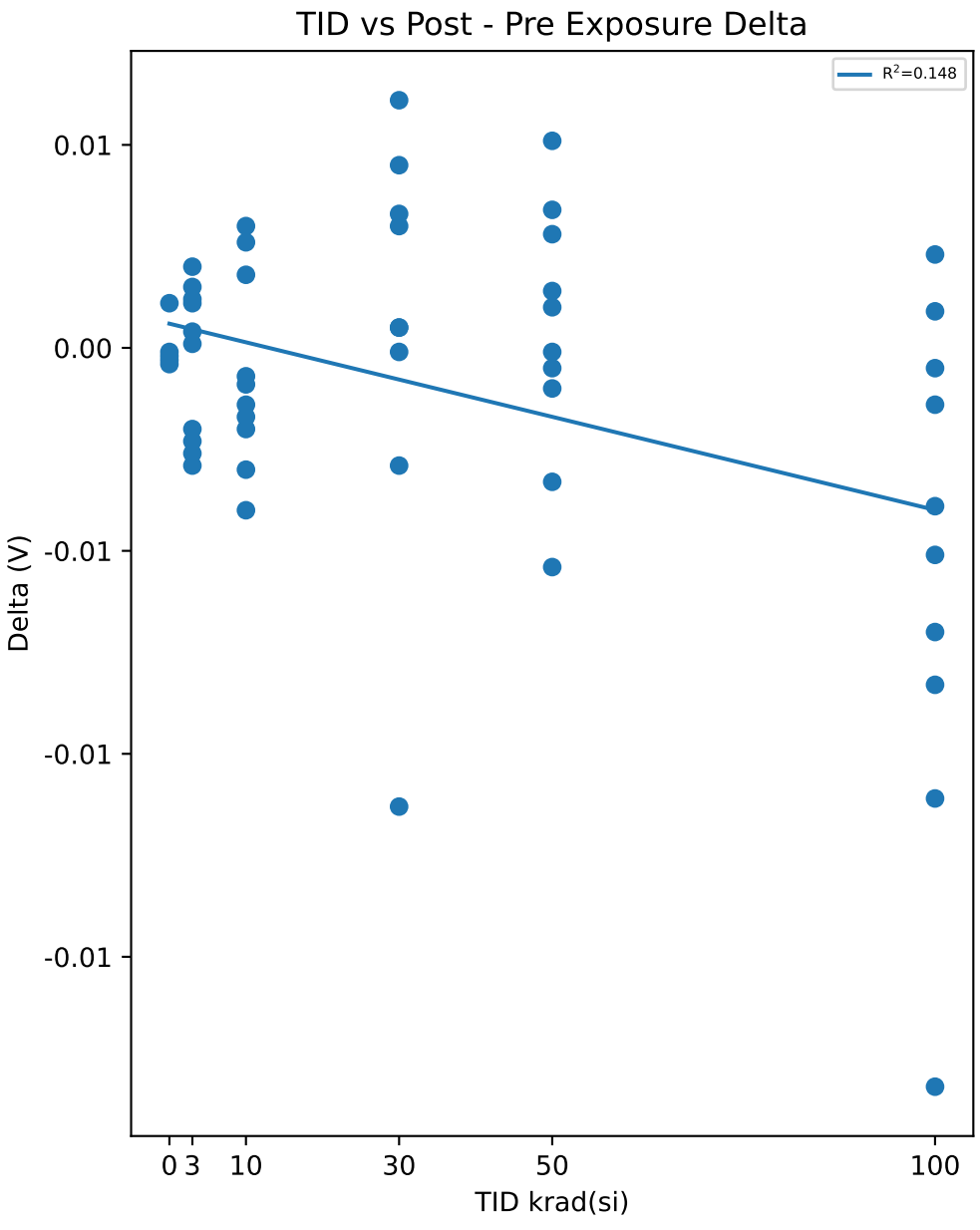
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	3.7733	3.7721	-0.0012
411	100	Unbiased	3.7624	3.7599	-0.0025
444	30	Unbiased	3.7837	3.7761	-0.0076
454	10	Unbiased	3.7702	3.7729	0.0027
491	3	Unbiased	3.7649	3.7651	0.0002
500	100	Unbiased	3.7936	3.7898	-0.0038
534	100	Biased	3.7777	3.7679	-0.0098
558	0	Correlation	3.7764	3.7757	-0.0007
563	100	Biased	3.7665	3.758	-0.0085
570	3	Unbiased	3.77	3.7715	0.0015
614	10	Unbiased	3.7797	3.7818	0.0021
675	3	Biased	3.7724	3.7721	-0.0003
713	100	Unbiased	3.7647	3.7758	0.0111
744	50	Biased	3.7836	3.7841	0.0005
799	50	Biased	3.7956	3.7852	-0.0104
842	30	Unbiased	3.7842	3.7839	-0.0003
889	3	Unbiased	3.7678	3.7665	-0.0013
901	3	Biased	3.7605	3.7602	-0.0003
930	50	Unbiased	3.773	3.7687	-0.0043
968	100	Unbiased	3.7686	3.7585	-0.0101
976	100	Unbiased	3.775	3.7646	-0.0104
981	3	Biased	3.7666	3.7658	-0.0008
1003	10	Biased	3.7602	3.7567	-0.0035
1039	3	Biased	3.758	3.7565	-0.0015
1053	100	Biased	3.7574	3.7531	-0.0043
1056	0	Correlation	3.7637	3.7639	0.0002
1072	10	Biased	3.7755	3.774	-0.0015
1095	50	Unbiased	3.7694	3.7713	0.0019
1099	0	Correlation	3.7767	3.7765	-0.0002
1113	3	Biased	3.7769	3.7787	0.0018
1142	10	Unbiased	3.7549	3.7526	-0.0023
1154	10	Biased	3.768	3.7818	0.0138
1215	50	Unbiased	3.7568	3.7609	0.0041
1222	100	Biased	3.7667	3.7615	-0.0052
1229	50	Unbiased	3.7835	3.7827	-0.0008
1255	3	Unbiased	3.7796	3.7786	-0.001
1331	30	Unbiased	3.7815	3.7846	0.0031
1359	30	Biased	3.789	3.7865	-0.0025
1375	30	Unbiased	3.7799	3.7821	0.0022
1398	30	Biased	3.783	3.7885	0.0055
1411	50	Biased	3.7752	3.7831	0.0079
1465	10	Unbiased	3.7639	3.7652	0.0013
1474	50	Biased	3.7663	3.7634	-0.0029
1504	50	Biased	3.7708	3.7718	0.001
1540	100	Biased	3.7924	3.7982	0.0058
1554	3	Unbiased	3.7797	3.7787	-0.001
1662	30	Biased	3.791	3.7843	-0.0067
1679	10	Biased	3.7643	3.7639	-0.0004
1697	10	Biased	3.7563	3.759	0.0027
1703	30	Biased	3.771	3.7665	-0.0045
1704	10	Unbiased	3.7777	3.7777	0
1736	30	Biased	3.7797	3.7843	0.0046
1737	0	Correlation	3.7806	3.7808	0.0002
1748	0	Correlation	3.7561	3.7559	-0.0002

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	3.7561	3.7707	3.7806	0.010352	3.7559	3.7706	3.7808	0.010318	-0.0007	-0.00014	0.0002	0.00037148
3	3.758	3.7696	3.7797	0.0075644	3.7565	3.7694	3.7787	0.0078897	-0.0015	-0.00027	0.0018	0.0011334
10	3.7549	3.7671	3.7797	0.0087131	3.7526	3.7686	3.7818	0.010553	-0.0035	0.00149	0.0138	0.0048174
30	3.771	3.7826	3.791	0.0057761	3.7665	3.7819	3.7885	0.0066929	-0.0076	-0.00068889	0.0055	0.004884
50	3.7568	3.7748	3.7956	0.010712	3.7609	3.7743	3.7852	0.0088986	-0.0104	-0.00042	0.0079	0.004938
100	3.7574	3.7725	3.7936	0.012248	3.7531	3.7687	3.7982	0.014812	-0.0104	-0.00377	0.0111	0.0071445

Device Test: 17.8 UVLO|VLDO_FALL/VLDO/4.5/4.5/0/1000/4.5/100kHz//@VLDO_UVLO_FALL





Test Results (Lower Limit = 3.45, Upper Limit = 3.75 (V))

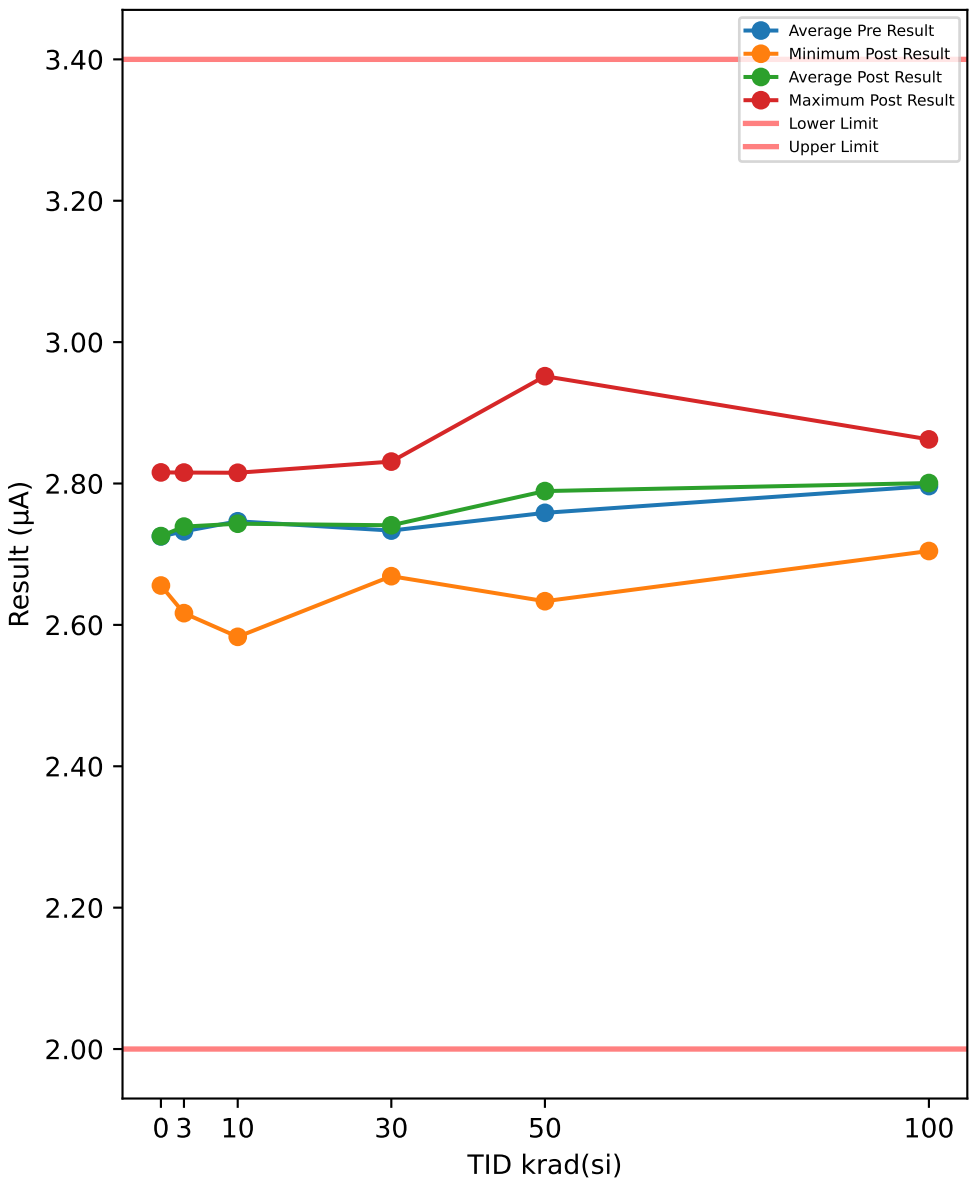
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	3.5983	3.5929	-0.0054
411	100	Unbiased	3.5827	3.5822	-0.0005
444	30	Unbiased	3.6139	3.6144	0.0005
454	10	Unbiased	3.5854	3.5872	0.0018
491	3	Unbiased	3.593	3.5934	0.0004
500	100	Unbiased	3.6052	3.6075	0.0023
534	100	Biased	3.5907	3.5856	-0.0051
558	0	Correlation	3.5946	3.5943	-0.0003
563	100	Biased	3.5879	3.5888	0.0009
570	3	Unbiased	3.5927	3.5928	0.0001
614	10	Unbiased	3.6123	3.6103	-0.002
675	3	Biased	3.5974	3.5948	-0.0026
713	100	Unbiased	3.5914	3.5875	-0.0039
744	50	Biased	3.5943	3.5953	0.001
799	50	Biased	3.6042	3.6056	0.0014
842	30	Unbiased	3.593	3.5975	0.0045
889	3	Unbiased	3.5949	3.5926	-0.0023
901	3	Biased	3.5842	3.5853	0.0011
930	50	Unbiased	3.5918	3.5913	-0.0005
968	100	Unbiased	3.5905	3.5822	-0.0083
976	100	Unbiased	3.5914	3.5844	-0.007
981	3	Biased	3.5914	3.5894	-0.002
1003	10	Biased	3.5796	3.5787	-0.0009
1039	3	Biased	3.5767	3.5782	0.0015
1053	100	Biased	3.5958	3.5776	-0.0182
1056	0	Correlation	3.5757	3.5756	-0.0001
1072	10	Biased	3.5926	3.5956	0.003
1095	50	Unbiased	3.5842	3.5893	0.0051
1099	0	Correlation	3.5983	3.5994	0.0011
1113	3	Biased	3.5946	3.5966	0.002
1142	10	Unbiased	3.5917	3.5903	-0.0014
1154	10	Biased	3.5939	3.5932	-0.0007
1215	50	Unbiased	3.5886	3.592	0.0034
1222	100	Biased	3.5905	3.5794	-0.0111
1229	50	Unbiased	3.6045	3.6035	-0.001
1255	3	Unbiased	3.6004	3.6016	0.0012
1331	30	Unbiased	3.592	3.595	0.003
1359	30	Biased	3.6098	3.5985	-0.0113
1375	30	Unbiased	3.5936	3.5997	0.0061
1398	30	Biased	3.6032	3.6003	-0.0029
1411	50	Biased	3.5974	3.5941	-0.0033
1465	10	Unbiased	3.5943	3.5903	-0.004
1474	50	Biased	3.5842	3.587	0.0028
1504	50	Biased	3.5904	3.5903	-0.0001
1540	100	Biased	3.6089	3.6075	-0.0014
1554	3	Unbiased	3.6014	3.5985	-0.0029
1662	30	Biased	3.6027	3.6026	-0.0001
1679	10	Biased	3.5867	3.5893	0.0026
1697	10	Biased	3.5814	3.5797	-0.0017
1703	30	Biased	3.5914	3.5947	0.0033
1704	10	Unbiased	3.5943	3.5913	-0.003
1736	30	Biased	3.5961	3.5966	0.0005
1737	0	Correlation	3.6036	3.6034	-0.0002
1748	0	Correlation	3.5955	3.5951	-0.0004

Test Statistics (V)

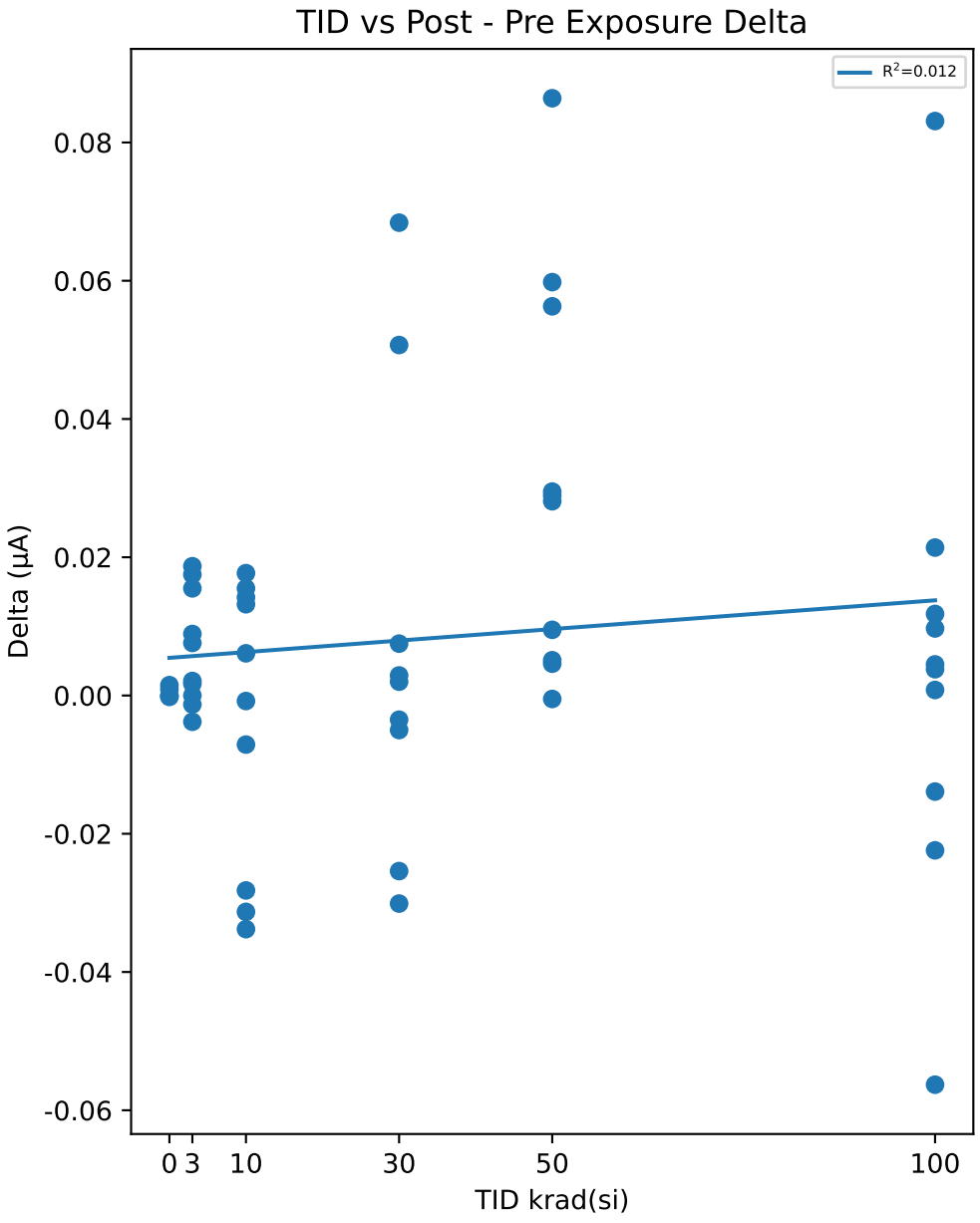
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	3.5757	3.5935	3.6036	0.010572	3.5756	3.5936	3.6034	0.010682	-0.0004	2e-05	0.0011	0.000614
3	3.5767	3.5927	3.6014	0.0074203	3.5782	3.5923	3.6016	0.0067283	-0.0029	-0.00035	0.002	0.0018946
10	3.5796	3.5912	3.6123	0.0091798	3.5787	3.5906	3.6103	0.0087825	-0.004	-0.00063	0.003	0.0023613
30	3.5914	3.5995	3.6139	0.0082754	3.5947	3.5999	3.6144	0.0059937	-0.0113	0.0004	0.0061	0.0051541
50	3.5842	3.5938	3.6045	0.007326	3.587	3.5941	3.6056	0.0059965	-0.0054	0.00034	0.0051	0.0031362
100	3.5827	3.5935	3.6089	0.0079022	3.5776	3.5883	3.6075	0.010692	-0.0182	-0.00523	0.0023	0.0062213

Device Test: 18.13 CURRENT|SS_0p3V/SS/14/14/0/1000/5/100kHz//@I_SS

TID vs Result Stats



TID vs Post - Pre Exposure Delta



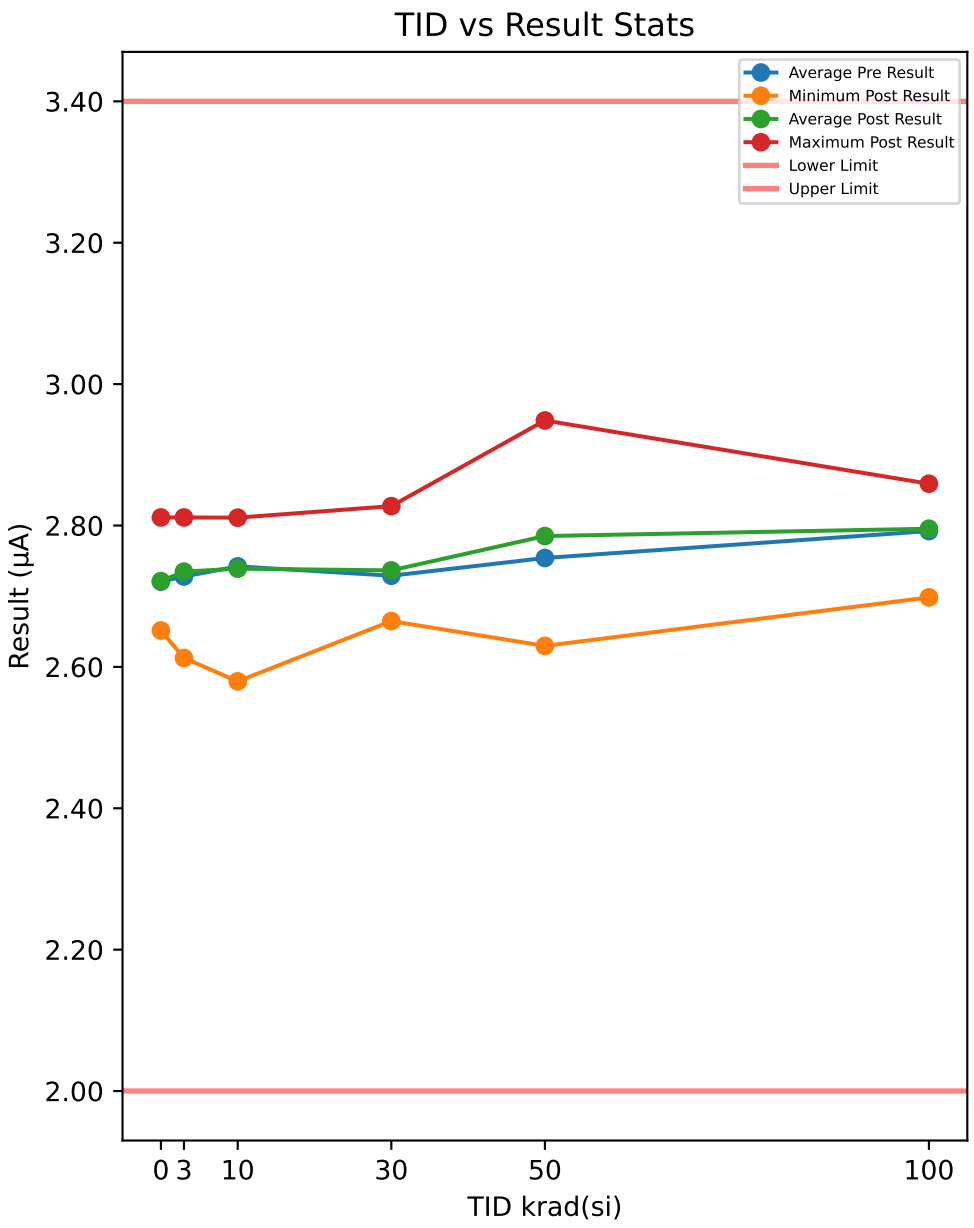
Test Results (Lower Limit = 2.0, Upper Limit = 3.4 (µA))

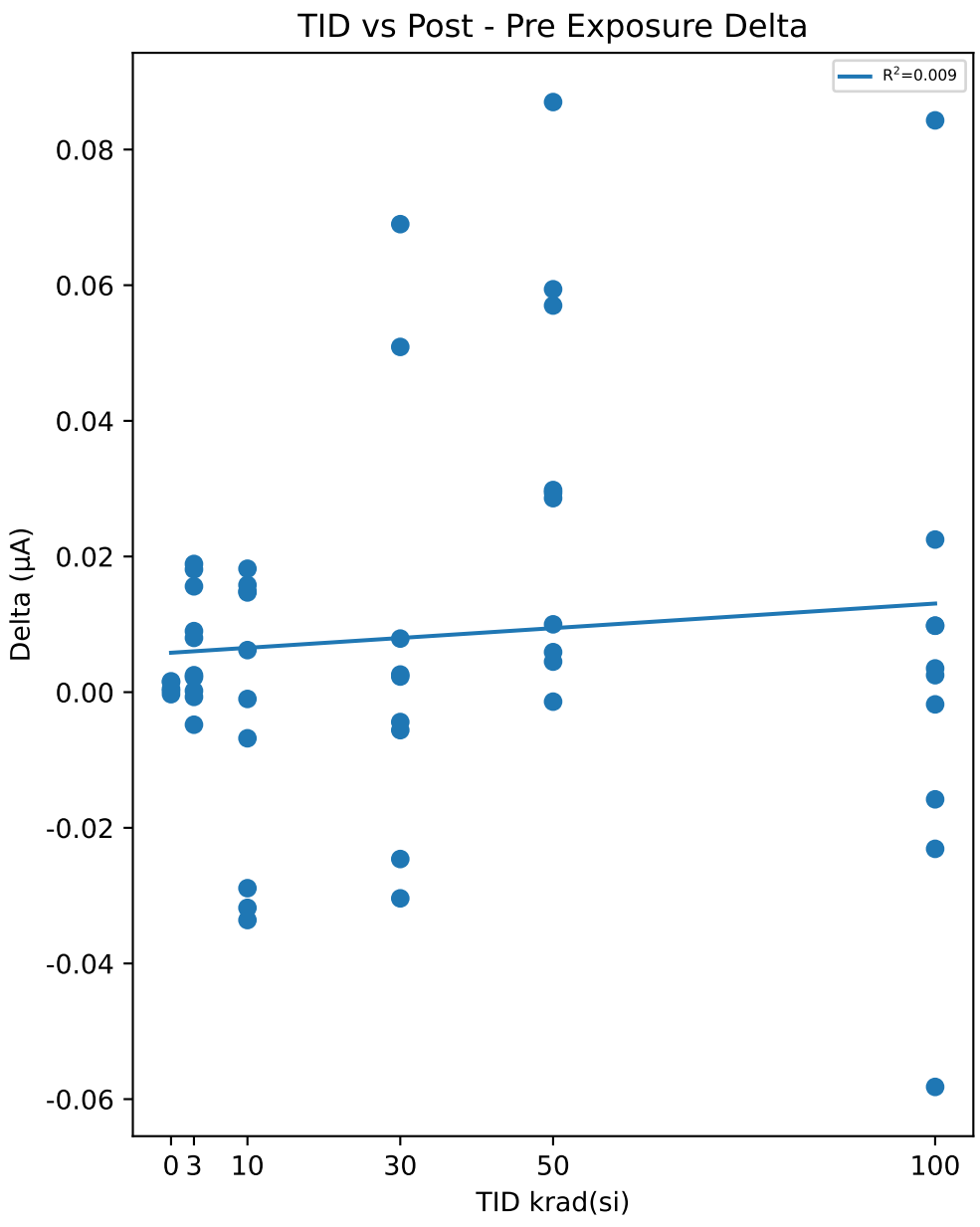
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	2.7727	2.8022	0.0295
411	100	Unbiased	2.7184	2.7045	-0.0139
444	30	Unbiased	2.7495	2.7445	-0.005
454	10	Unbiased	2.8213	2.7931	-0.0282
491	3	Unbiased	2.7923	2.7999	0.0076
500	100	Unbiased	2.7639	2.7853	0.0214
534	100	Biased	2.8023	2.8031	0.0008
558	0	Correlation	2.8142	2.8157	0.0015
563	100	Biased	2.8251	2.8369	0.0118
570	3	Unbiased	2.6846	2.7001	0.0155
614	10	Unbiased	2.7884	2.7546	-0.0338
675	3	Biased	2.8155	2.8155	0
713	100	Unbiased	2.798	2.8018	0.0038
744	50	Biased	2.8654	2.9518	0.0864
799	50	Biased	2.6439	2.7002	0.0563
842	30	Unbiased	2.745	2.7149	-0.0301
889	3	Unbiased	2.7761	2.785	0.0089
901	3	Biased	2.6893	2.6855	-0.0038
930	50	Unbiased	2.7395	2.749	0.0095
968	100	Unbiased	2.7666	2.7763	0.0097
976	100	Unbiased	2.8339	2.8115	-0.0224
981	3	Biased	2.7762	2.7749	-0.0013
1003	10	Biased	2.7408	2.7469	0.0061
1039	3	Biased	2.6536	2.6557	0.0021
1053	100	Biased	2.8216	2.8261	0.0045
1056	0	Correlation	2.7045	2.7045	0
1072	10	Biased	2.7949	2.7636	-0.0313
1095	50	Unbiased	2.7849	2.7844	-0.0005
1099	0	Correlation	2.6559	2.6557	-0.0002
1113	3	Biased	2.7264	2.7439	0.0175
1142	10	Unbiased	2.7564	2.7556	-0.0008
1154	10	Biased	2.6785	2.6714	-0.0071
1215	50	Unbiased	2.776	2.8049	0.0289
1222	100	Biased	2.8549	2.7986	-0.0563
1229	50	Unbiased	2.8003	2.8284	0.0281
1255	3	Unbiased	2.7946	2.8133	0.0187
1331	30	Unbiased	2.7565	2.7594	0.0029
1359	30	Biased	2.7319	2.7826	0.0507
1375	30	Unbiased	2.6669	2.6689	0.002
1398	30	Biased	2.6919	2.6884	-0.0035
1411	50	Biased	2.8137	2.8735	0.0598
1465	10	Unbiased	2.7997	2.8152	0.0155
1474	50	Biased	2.6284	2.6335	0.0051
1504	50	Biased	2.7603	2.7649	0.0046
1540	100	Biased	2.7793	2.8624	0.0831
1554	3	Unbiased	2.6149	2.6166	0.0017
1662	30	Biased	2.8564	2.831	-0.0254
1679	10	Biased	2.7322	2.7464	0.0142
1697	10	Biased	2.5654	2.5831	0.0177
1703	30	Biased	2.6073	2.6757	0.0684
1704	10	Unbiased	2.7881	2.8013	0.0132
1736	30	Biased	2.7953	2.8028	0.0075
1737	0	Correlation	2.6909	2.6908	-0.0001
1748	0	Correlation	2.7603	2.7612	0.0009

Test Statistics (µA)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2.6559	2.7252	2.8142	0.062371	2.6557	2.7256	2.8157	0.063102	-0.0002	0.00042	0.0015	0.00074632
3	2.6149	2.7323	2.8155	0.068625	2.6166	2.739	2.8155	0.070558	-0.0038	0.00669	0.0187	0.0082262
10	2.5654	2.7466	2.8213	0.076019	2.5831	2.7431	2.8152	0.068767	-0.0338	-0.00345	0.0177	0.020591
30	2.6073	2.7334	2.8564	0.072402	2.6689	2.7409	2.831	0.057999	-0.0301	0.0075	0.0684	0.032403
50	2.6284	2.7585	2.8654	0.072916	2.6335	2.7893	2.9518	0.088123	-0.0005	0.03077	0.0864	0.028627
100	2.7184	2.7964	2.8549	0.040339	2.7045	2.8007	2.8624	0.042134	-0.0563	0.00425	0.0831	0.035459

Device Test: 18.17 CURRENT|SS_0p3V/SS/12/12/0/1000/5/500kHz//@I_SS





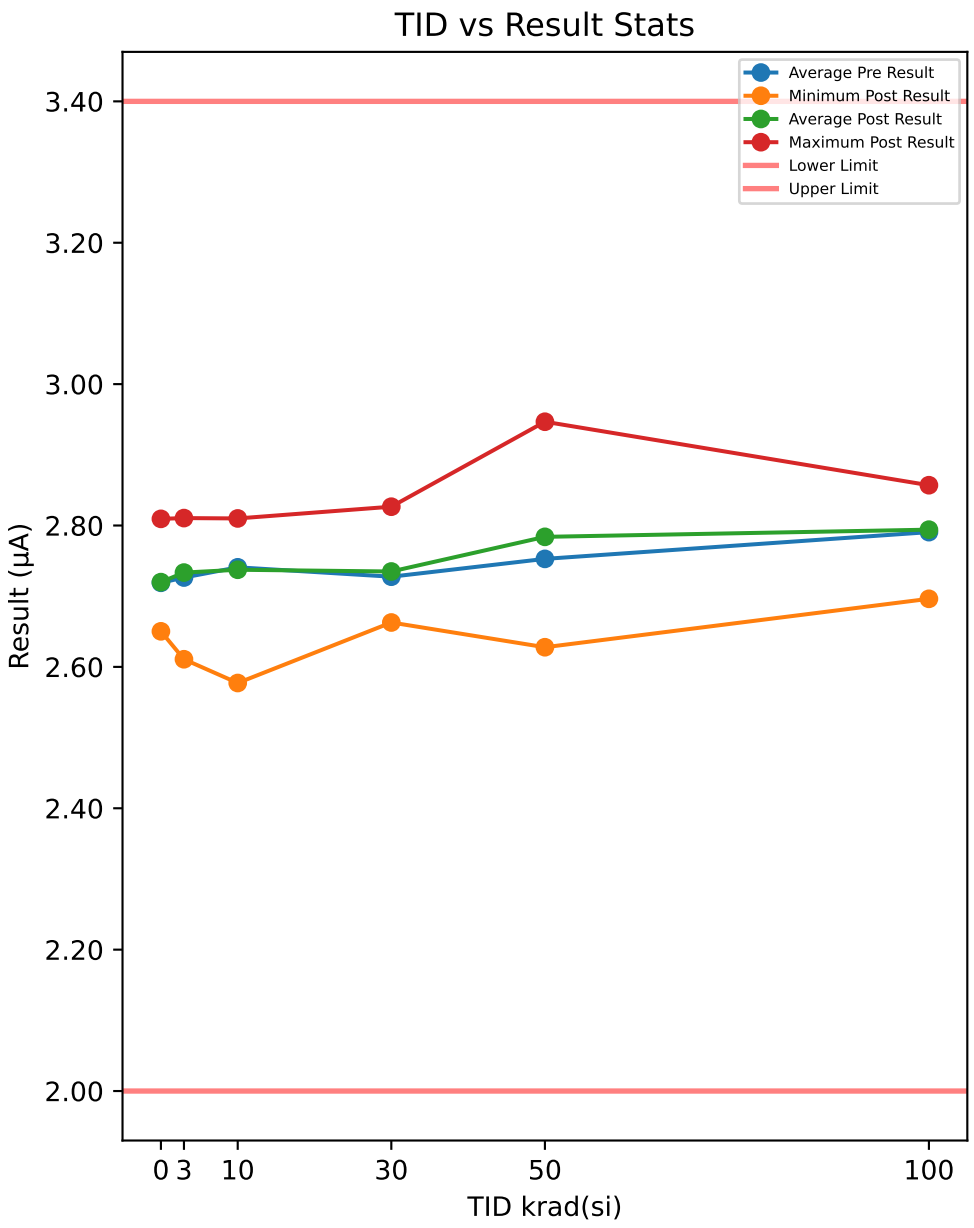
Test Results (Lower Limit = 2.0, Upper Limit = 3.4 (µA))

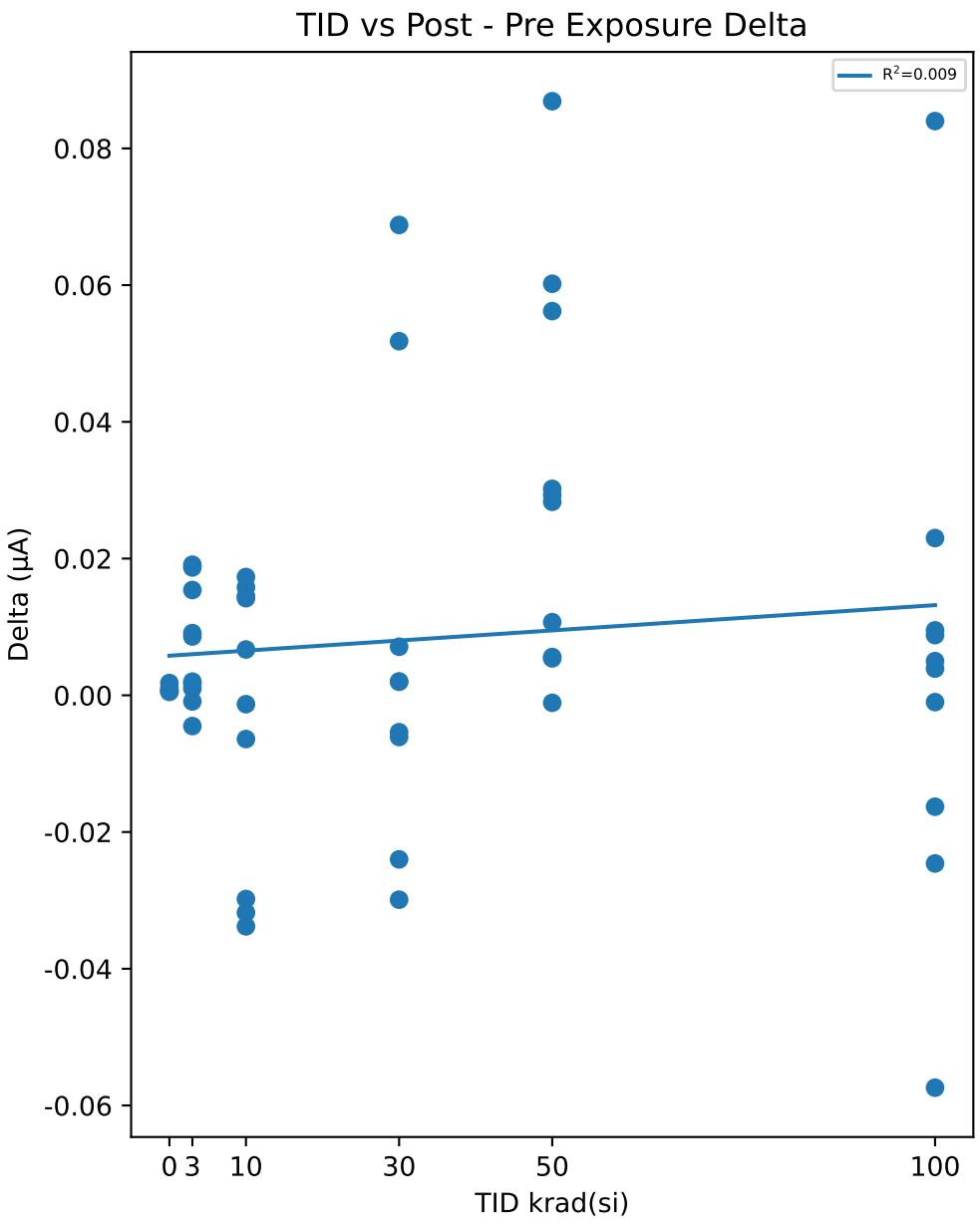
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	2.7679	2.7973	0.0294
411	100	Unbiased	2.7141	2.6983	-0.0158
444	30	Unbiased	2.7451	2.7395	-0.0056
454	10	Unbiased	2.8171	2.7882	-0.0289
491	3	Unbiased	2.7879	2.7959	0.008
500	100	Unbiased	2.7594	2.7819	0.0225
534	100	Biased	2.7982	2.7964	-0.0018
558	0	Correlation	2.8098	2.8114	0.0016
563	100	Biased	2.8208	2.8306	0.0098
570	3	Unbiased	2.6798	2.6954	0.0156
614	10	Unbiased	2.7836	2.75	-0.0336
675	3	Biased	2.8112	2.8114	0.0002
713	100	Unbiased	2.7936	2.7961	0.0025
744	50	Biased	2.8616	2.9486	0.087
799	50	Biased	2.6396	2.6966	0.057
842	30	Unbiased	2.7407	2.7103	-0.0304
889	3	Unbiased	2.7718	2.7808	0.009
901	3	Biased	2.6855	2.6807	-0.0048
930	50	Unbiased	2.7349	2.7449	0.01
968	100	Unbiased	2.7624	2.7722	0.0098
976	100	Unbiased	2.8294	2.8063	-0.0231
981	3	Biased	2.7713	2.7706	-0.0007
1003	10	Biased	2.7364	2.7426	0.0062
1039	3	Biased	2.649	2.6512	0.0022
1053	100	Biased	2.8171	2.8206	0.0035
1056	0	Correlation	2.6999	2.7004	0.0005
1072	10	Biased	2.791	2.7592	-0.0318
1095	50	Unbiased	2.7805	2.7791	-0.0014
1099	0	Correlation	2.6513	2.6515	0.0002
1113	3	Biased	2.7217	2.7398	0.0181
1142	10	Unbiased	2.7518	2.7508	-0.001
1154	10	Biased	2.6745	2.6677	-0.0068
1215	50	Unbiased	2.7715	2.8001	0.0286
1222	100	Biased	2.8512	2.793	-0.0582
1229	50	Unbiased	2.7955	2.8253	0.0298
1255	3	Unbiased	2.7901	2.809	0.0189
1331	30	Unbiased	2.7524	2.7547	0.0023
1359	30	Biased	2.7274	2.7783	0.0509
1375	30	Unbiased	2.6622	2.6648	0.0026
1398	30	Biased	2.6875	2.6831	-0.0044
1411	50	Biased	2.8094	2.8688	0.0594
1465	10	Unbiased	2.7953	2.8111	0.0158
1474	50	Biased	2.6238	2.6297	0.0059
1504	50	Biased	2.756	2.7605	0.0045
1540	100	Biased	2.7748	2.8591	0.0843
1554	3	Unbiased	2.6101	2.6126	0.0025
1662	30	Biased	2.852	2.8274	-0.0246
1679	10	Biased	2.7275	2.7424	0.0149
1697	10	Biased	2.5613	2.5795	0.0182
1703	30	Biased	2.6029	2.6719	0.069
1704	10	Unbiased	2.7833	2.798	0.0147
1736	30	Biased	2.7908	2.7987	0.0079
1737	0	Correlation	2.6862	2.6859	-0.0003
1748	0	Correlation	2.7559	2.7574	0.0015

Test Statistics (µA)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2.6513	2.7206	2.8098	0.062484	2.6515	2.7213	2.8114	0.063212	-0.0003	0.0007	0.0016	0.00082765
3	2.6101	2.7278	2.8112	0.068694	2.6126	2.7347	2.8114	0.070656	-0.0048	0.0069	0.0189	0.0083781
10	2.5613	2.7422	2.8171	0.075912	2.5795	2.7389	2.8111	0.06857	-0.0336	-0.00323	0.0182	0.021018
30	2.6029	2.729	2.852	0.07244	2.6648	2.7365	2.8274	0.058171	-0.0304	0.0075222	0.069	0.03259
50	2.6238	2.7541	2.8616	0.073014	2.6297	2.7851	2.9486	0.088171	-0.0014	0.03102	0.087	0.028774
100	2.7141	2.7921	2.8512	0.040424	2.6983	2.7954	2.8591	0.042435	-0.0582	0.00335	0.0843	0.036339

Device Test: 18.21 CURRENT|SS_0p3V/SS/14/14/0/1000/5/500kHz//@I_SS





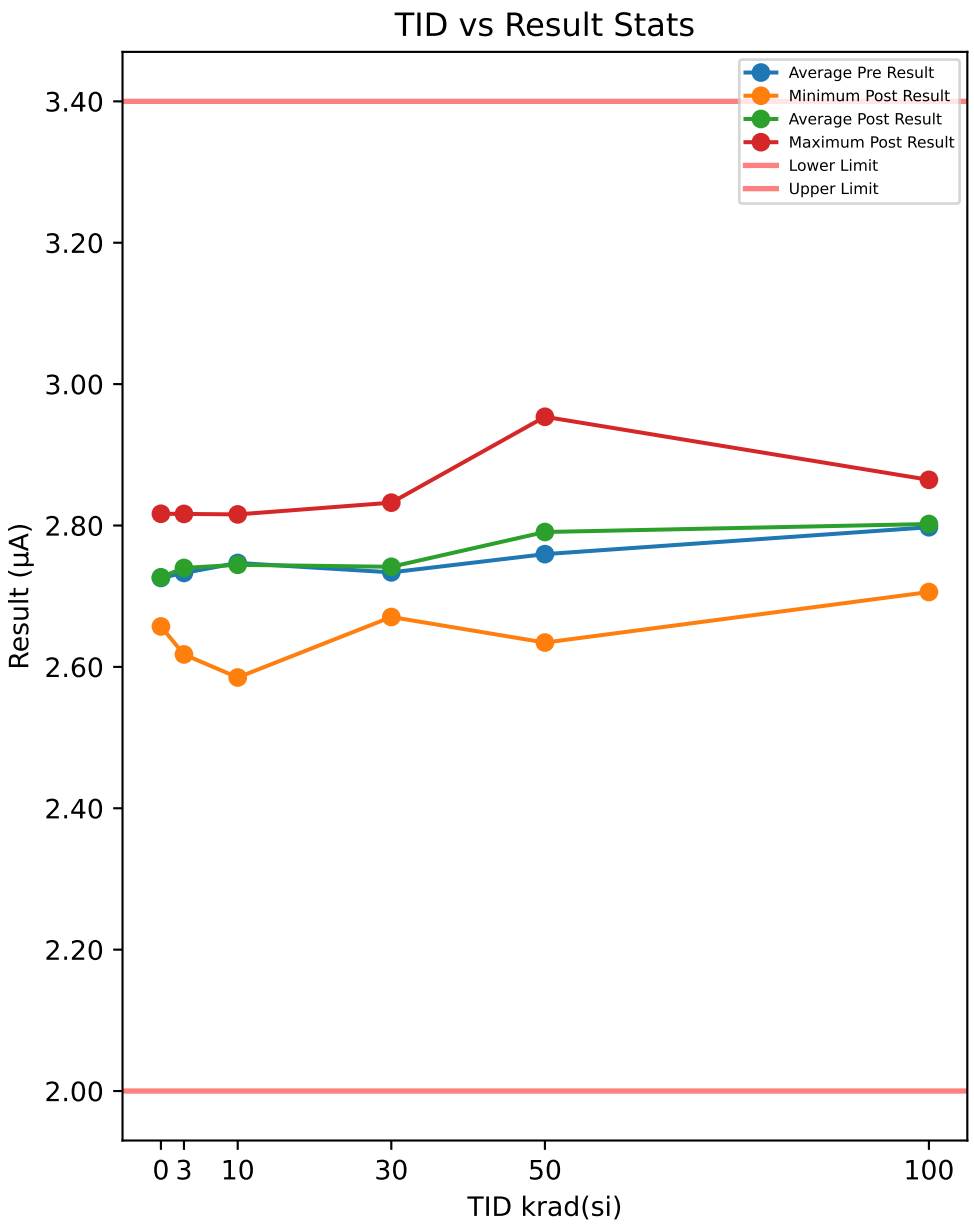
Test Results (Lower Limit = 2.0, Upper Limit = 3.4 (µA))

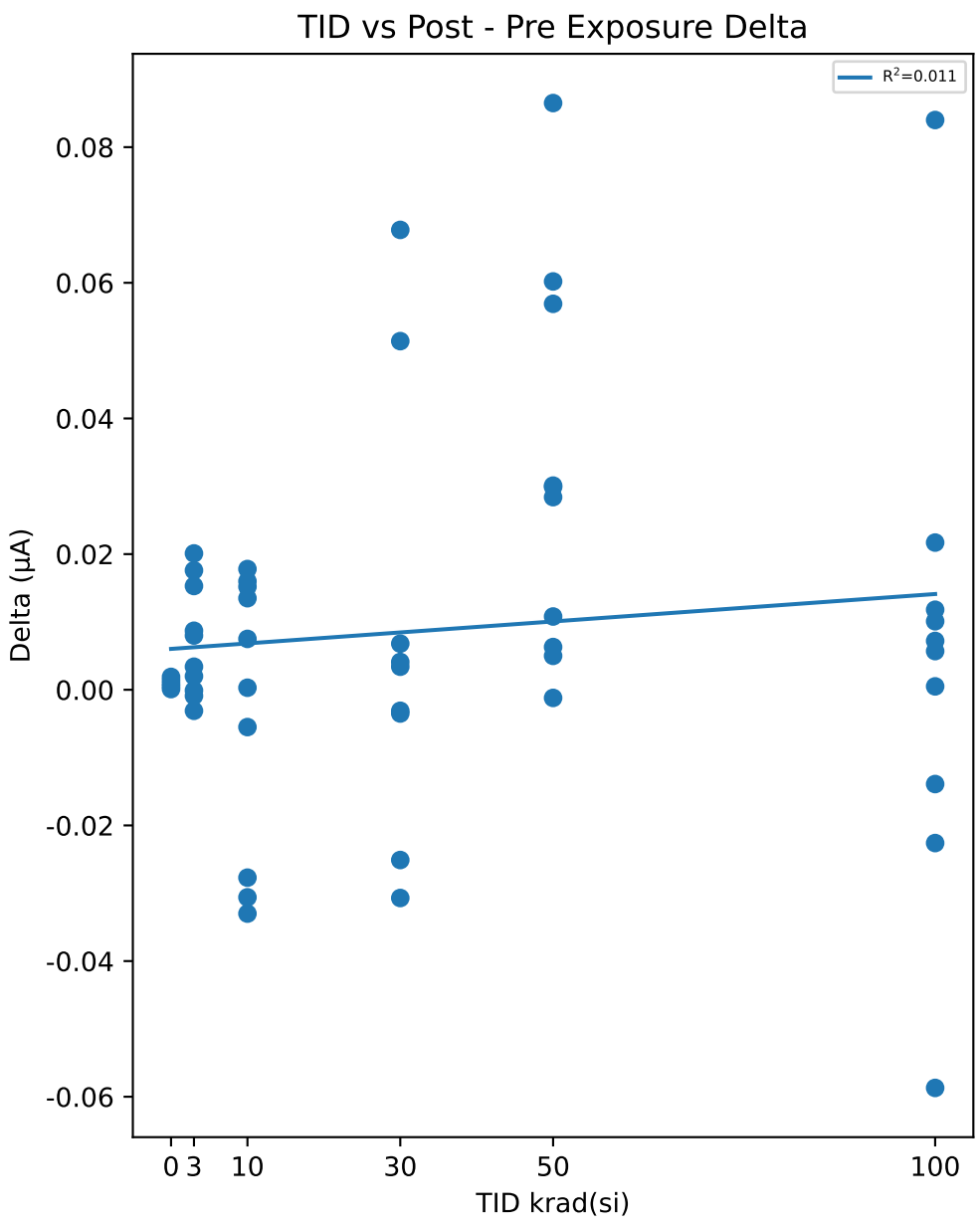
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	2.7671	2.7964	0.0293
411	100	Unbiased	2.7126	2.6963	-0.0163
444	30	Unbiased	2.7434	2.7373	-0.0061
454	10	Unbiased	2.816	2.7862	-0.0298
491	3	Unbiased	2.7861	2.7947	0.0086
500	100	Unbiased	2.7577	2.7807	0.023
534	100	Biased	2.7966	2.7956	-0.001
558	0	Correlation	2.8083	2.8094	0.0011
563	100	Biased	2.8194	2.8282	0.0088
570	3	Unbiased	2.6787	2.6941	0.0154
614	10	Unbiased	2.7824	2.7486	-0.0338
675	3	Biased	2.8095	2.8105	0.001
713	100	Unbiased	2.7921	2.796	0.0039
744	50	Biased	2.8599	2.9468	0.0869
799	50	Biased	2.6383	2.6945	0.0562
842	30	Unbiased	2.7394	2.7095	-0.0299
889	3	Unbiased	2.7704	2.7795	0.0091
901	3	Biased	2.6835	2.679	-0.0045
930	50	Unbiased	2.7336	2.7443	0.0107
968	100	Unbiased	2.7611	2.7706	0.0095
976	100	Unbiased	2.8281	2.8035	-0.0246
981	3	Biased	2.7703	2.7694	-0.0009
1003	10	Biased	2.7347	2.7414	0.0067
1039	3	Biased	2.6479	2.6499	0.002
1053	100	Biased	2.8158	2.8208	0.005
1056	0	Correlation	2.6983	2.6989	0.0006
1072	10	Biased	2.7896	2.7578	-0.0318
1095	50	Unbiased	2.7792	2.7781	-0.0011
1099	0	Correlation	2.6496	2.6503	0.0007
1113	3	Biased	2.72	2.7387	0.0187
1142	10	Unbiased	2.7505	2.7492	-0.0013
1154	10	Biased	2.6729	2.6665	-0.0064
1215	50	Unbiased	2.7709	2.7992	0.0283
1222	100	Biased	2.8499	2.7925	-0.0574
1229	50	Unbiased	2.7943	2.8245	0.0302
1255	3	Unbiased	2.7885	2.8076	0.0191
1331	30	Unbiased	2.7513	2.7533	0.002
1359	30	Biased	2.7259	2.7777	0.0518
1375	30	Unbiased	2.6608	2.6628	0.002
1398	30	Biased	2.6865	2.6811	-0.0054
1411	50	Biased	2.8076	2.8678	0.0602
1465	10	Unbiased	2.7942	2.81	0.0158
1474	50	Biased	2.6222	2.6278	0.0056
1504	50	Biased	2.7548	2.7602	0.0054
1540	100	Biased	2.773	2.857	0.084
1554	3	Unbiased	2.6091	2.6108	0.0017
1662	30	Biased	2.8506	2.8266	-0.024
1679	10	Biased	2.7267	2.7409	0.0142
1697	10	Biased	2.5599	2.5772	0.0173
1703	30	Biased	2.6013	2.6701	0.0688
1704	10	Unbiased	2.7817	2.7962	0.0145
1736	30	Biased	2.789	2.7961	0.0071
1737	0	Correlation	2.6845	2.685	0.0005
1748	0	Correlation	2.7541	2.7559	0.0018

Test Statistics (µA)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2.6496	2.719	2.8083	0.062533	2.6503	2.7199	2.8094	0.062868	0.0005	0.00094	0.0018	0.00053198
3	2.6091	2.7264	2.8095	0.06853	2.6108	2.7334	2.8105	0.070839	-0.0045	0.00702	0.0191	0.0084628
10	2.5599	2.7409	2.816	0.07598	2.5772	2.7374	2.81	0.068726	-0.0338	-0.00346	0.0173	0.021004
30	2.6013	2.7276	2.8506	0.072419	2.6628	2.7349	2.8266	0.058382	-0.0299	0.0073667	0.0688	0.03264
50	2.6222	2.7528	2.8599	0.073002	2.6278	2.784	2.9468	0.088278	-0.0011	0.03117	0.0869	0.028609
100	2.7126	2.7906	2.8499	0.040513	2.6963	2.7941	2.857	0.04246	-0.0574	0.00349	0.084	0.036267

Device Test: 18.25 CURRENT|SS_0p3V/SS/8/8/0/1000/5/100kHz//@I_SS





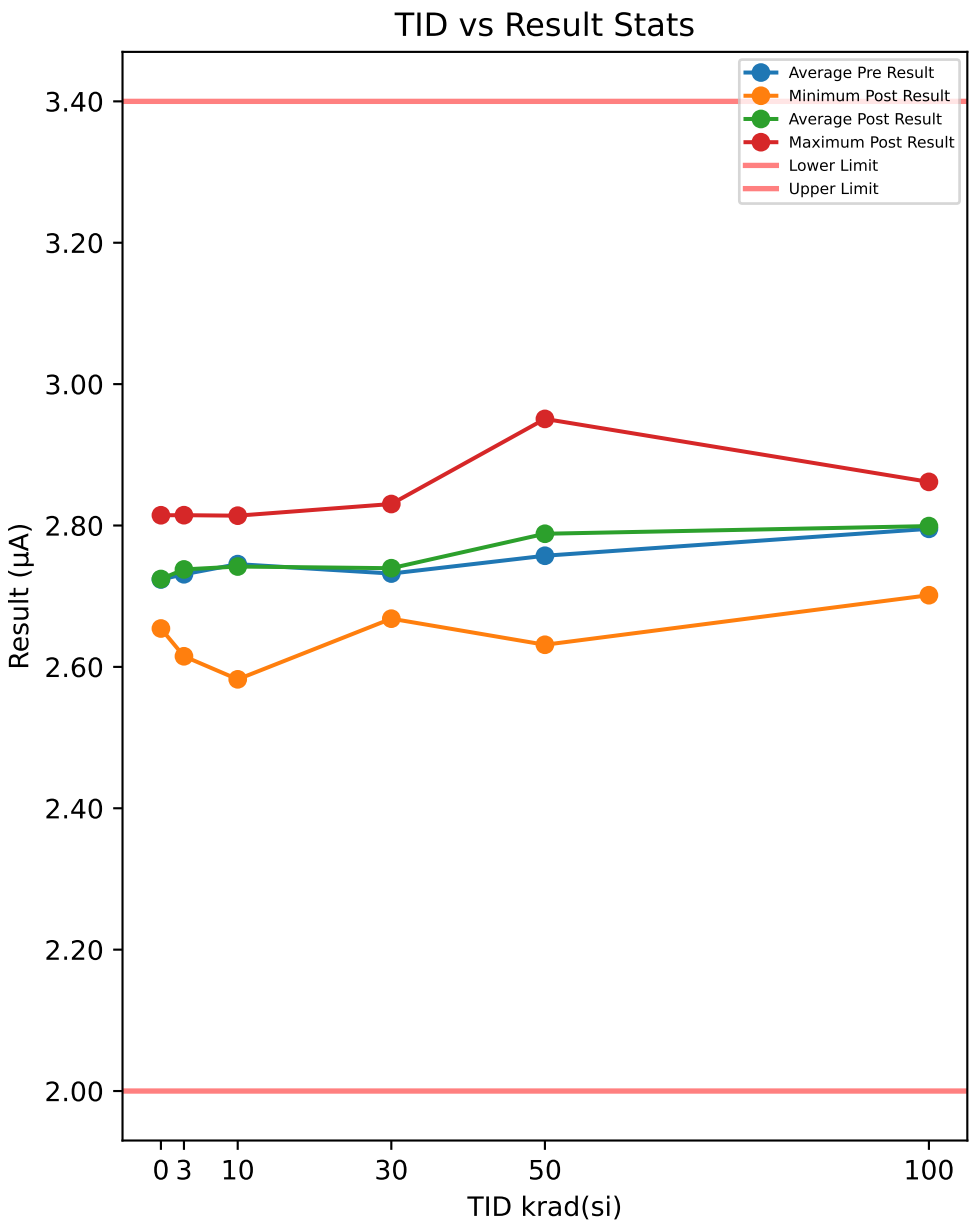
Test Results (Lower Limit = 2.0, Upper Limit = 3.4 (µA))

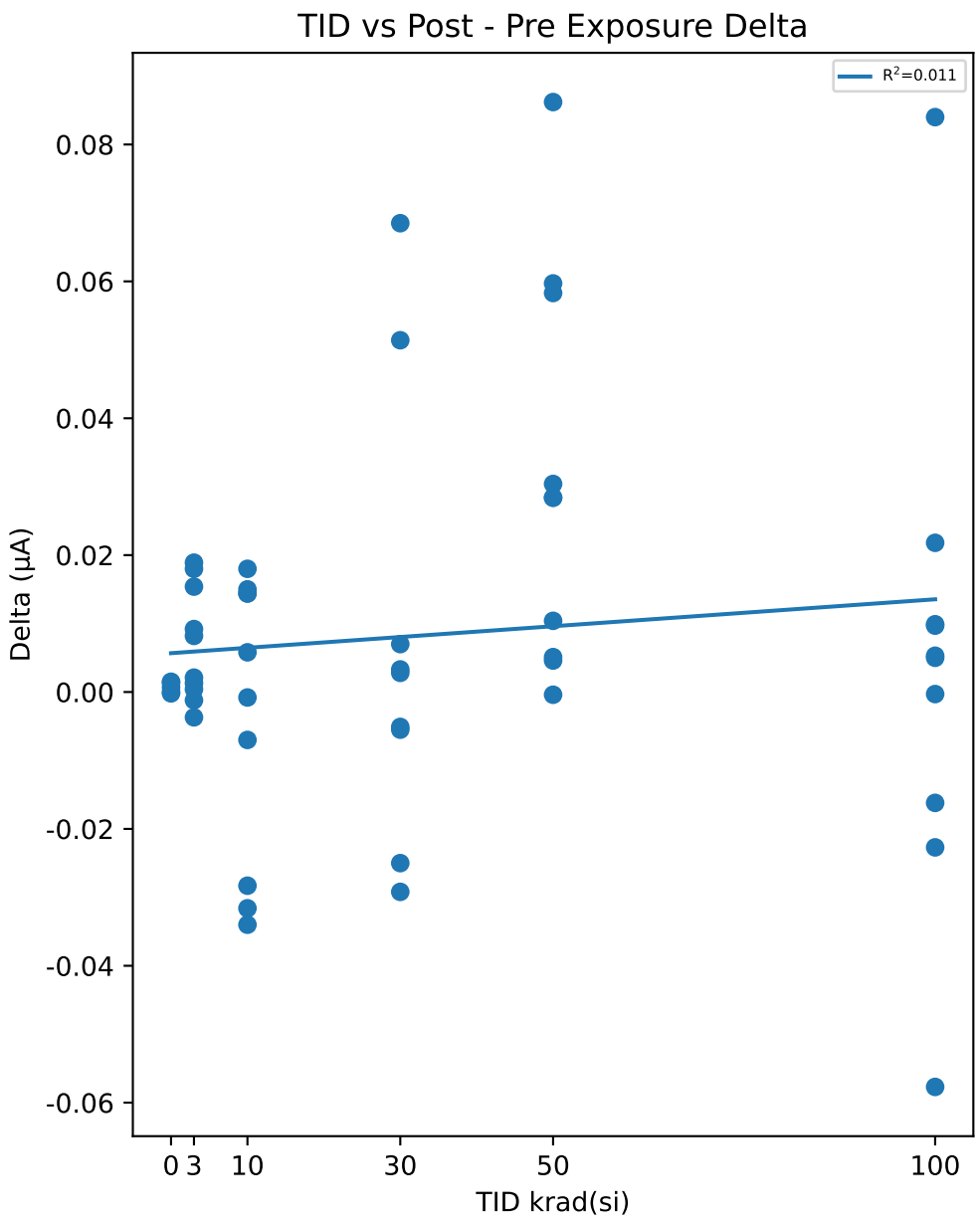
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	2.7739	2.8023	0.0284
411	100	Unbiased	2.7198	2.7059	-0.0139
444	30	Unbiased	2.7489	2.7454	-0.0035
454	10	Unbiased	2.8211	2.7934	-0.0277
491	3	Unbiased	2.7931	2.8011	0.008
500	100	Unbiased	2.765	2.7867	0.0217
534	100	Biased	2.8025	2.803	0.0005
558	0	Correlation	2.8152	2.8166	0.0014
563	100	Biased	2.8251	2.8369	0.0118
570	3	Unbiased	2.6856	2.7009	0.0153
614	10	Unbiased	2.7895	2.7565	-0.033
675	3	Biased	2.8165	2.8164	-0.0001
713	100	Unbiased	2.7994	2.8066	0.0072
744	50	Biased	2.8673	2.9538	0.0865
799	50	Biased	2.6452	2.7021	0.0569
842	30	Unbiased	2.7457	2.715	-0.0307
889	3	Unbiased	2.7773	2.786	0.0087
901	3	Biased	2.6894	2.6863	-0.0031
930	50	Unbiased	2.7404	2.7512	0.0108
968	100	Unbiased	2.7683	2.7784	0.0101
976	100	Unbiased	2.8354	2.8128	-0.0226
981	3	Biased	2.7767	2.7758	-0.0009
1003	10	Biased	2.7415	2.749	0.0075
1039	3	Biased	2.6529	2.6563	0.0034
1053	100	Biased	2.8228	2.8285	0.0057
1056	0	Correlation	2.7039	2.7058	0.0019
1072	10	Biased	2.795	2.7644	-0.0306
1095	50	Unbiased	2.7867	2.7855	-0.0012
1099	0	Correlation	2.6571	2.6572	0.0001
1113	3	Biased	2.7271	2.7447	0.0176
1142	10	Unbiased	2.7562	2.7565	0.0003
1154	10	Biased	2.6785	2.673	-0.0055
1215	50	Unbiased	2.7763	2.8064	0.0301
1222	100	Biased	2.8565	2.7978	-0.0587
1229	50	Unbiased	2.8013	2.8312	0.0299
1255	3	Unbiased	2.7945	2.8146	0.0201
1331	30	Unbiased	2.7564	2.7598	0.0034
1359	30	Biased	2.7315	2.7829	0.0514
1375	30	Unbiased	2.6665	2.6706	0.0041
1398	30	Biased	2.6921	2.689	-0.0031
1411	50	Biased	2.8144	2.8746	0.0602
1465	10	Unbiased	2.8005	2.8157	0.0152
1474	50	Biased	2.6294	2.6344	0.005
1504	50	Biased	2.7601	2.7664	0.0063
1540	100	Biased	2.7806	2.8646	0.084
1554	3	Unbiased	2.6156	2.6176	0.002
1662	30	Biased	2.8574	2.8323	-0.0251
1679	10	Biased	2.7318	2.7478	0.016
1697	10	Biased	2.5672	2.585	0.0178
1703	30	Biased	2.6082	2.676	0.0678
1704	10	Unbiased	2.7892	2.8027	0.0135
1736	30	Biased	2.7965	2.8033	0.0068
1737	0	Correlation	2.6916	2.6921	0.0005
1748	0	Correlation	2.7613	2.7622	0.0009

Test Statistics (µA)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2.6571	2.7258	2.8152	0.062493	2.6572	2.7268	2.8166	0.062862	0.0001	0.00096	0.0019	0.00071274
3	2.6156	2.7329	2.8165	0.068815	2.6176	2.74	2.8164	0.070675	-0.0031	0.0071	0.0201	0.0082289
10	2.5672	2.7471	2.8211	0.075726	2.585	2.7444	2.8157	0.068407	-0.033	-0.00265	0.0178	0.020535
30	2.6082	2.7337	2.8574	0.072575	2.6706	2.7416	2.8323	0.057991	-0.0307	0.0079	0.0678	0.0323
50	2.6294	2.7595	2.8673	0.073005	2.6344	2.7908	2.9538	0.088267	-0.0012	0.03129	0.0865	0.028563
100	2.7198	2.7975	2.8565	0.040249	2.7059	2.8021	2.8646	0.042192	-0.0587	0.00458	0.084	0.036198

Device Test: 18.29 CURRENT|SS_0p3V/SS/8/8/0/1000/5/500kHz//@I_SS





Test Results (Lower Limit = 2.0, Upper Limit = 3.4 (µA))

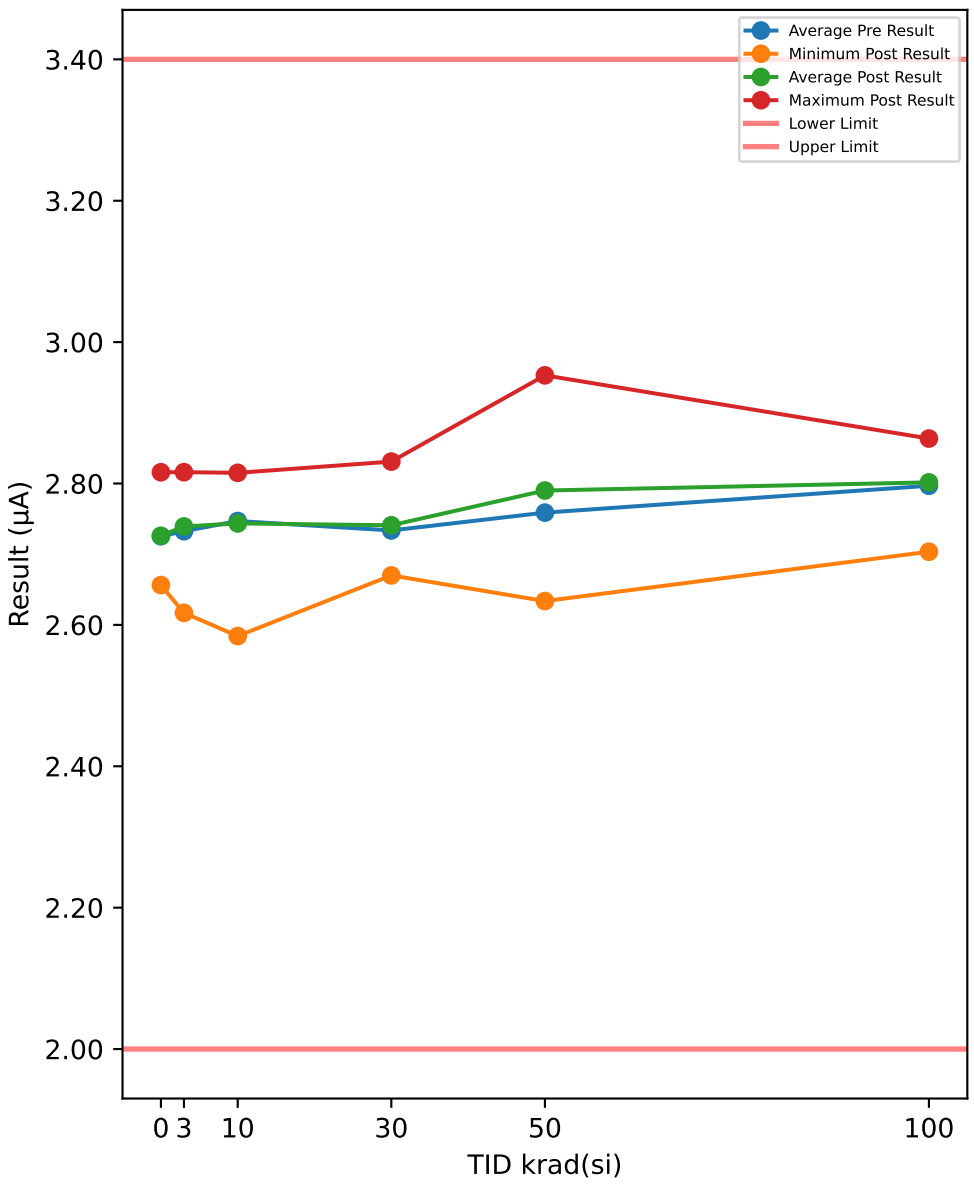
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	2.7713	2.7997	0.0284
411	100	Unbiased	2.7176	2.7014	-0.0162
444	30	Unbiased	2.7482	2.7427	-0.0055
454	10	Unbiased	2.8202	2.7919	-0.0283
491	3	Unbiased	2.7907	2.7989	0.0082
500	100	Unbiased	2.7623	2.7841	0.0218
534	100	Biased	2.801	2.8007	-0.0003
558	0	Correlation	2.8131	2.8145	0.0014
563	100	Biased	2.8239	2.8338	0.0099
570	3	Unbiased	2.683	2.6984	0.0154
614	10	Unbiased	2.7874	2.7534	-0.034
675	3	Biased	2.8142	2.8146	0.0004
713	100	Unbiased	2.7972	2.8022	0.005
744	50	Biased	2.8646	2.9508	0.0862
799	50	Biased	2.6426	2.7009	0.0583
842	30	Unbiased	2.7437	2.7145	-0.0292
889	3	Unbiased	2.7747	2.7839	0.0092
901	3	Biased	2.6881	2.6844	-0.0037
930	50	Unbiased	2.738	2.7484	0.0104
968	100	Unbiased	2.7655	2.7752	0.0097
976	100	Unbiased	2.8325	2.8098	-0.0227
981	3	Biased	2.7751	2.7739	-0.0012
1003	10	Biased	2.7396	2.7454	0.0058
1039	3	Biased	2.652	2.6541	0.0021
1053	100	Biased	2.8206	2.8259	0.0053
1056	0	Correlation	2.7028	2.7035	0.0007
1072	10	Biased	2.7937	2.7621	-0.0316
1095	50	Unbiased	2.7843	2.7839	-0.0004
1099	0	Correlation	2.6545	2.6543	-0.0002
1113	3	Biased	2.7251	2.7431	0.018
1142	10	Unbiased	2.7548	2.754	-0.0008
1154	10	Biased	2.6771	2.6701	-0.007
1215	50	Unbiased	2.7749	2.8033	0.0284
1222	100	Biased	2.8547	2.797	-0.0577
1229	50	Unbiased	2.7987	2.8291	0.0304
1255	3	Unbiased	2.7935	2.8124	0.0189
1331	30	Unbiased	2.7556	2.7584	0.0028
1359	30	Biased	2.7303	2.7817	0.0514
1375	30	Unbiased	2.6649	2.6682	0.0033
1398	30	Biased	2.6905	2.6854	-0.0051
1411	50	Biased	2.8124	2.8721	0.0597
1465	10	Unbiased	2.7989	2.8139	0.015
1474	50	Biased	2.6267	2.6313	0.0046
1504	50	Biased	2.7587	2.7638	0.0051
1540	100	Biased	2.7777	2.8617	0.084
1554	3	Unbiased	2.6137	2.615	0.0013
1662	30	Biased	2.8554	2.8304	-0.025
1679	10	Biased	2.7309	2.7453	0.0144
1697	10	Biased	2.5644	2.5824	0.018
1703	30	Biased	2.6057	2.6742	0.0685
1704	10	Unbiased	2.7867	2.8011	0.0144
1736	30	Biased	2.7939	2.8009	0.007
1737	0	Correlation	2.6891	2.6891	0
1748	0	Correlation	2.7587	2.7602	0.0015

Test Statistics (µA)

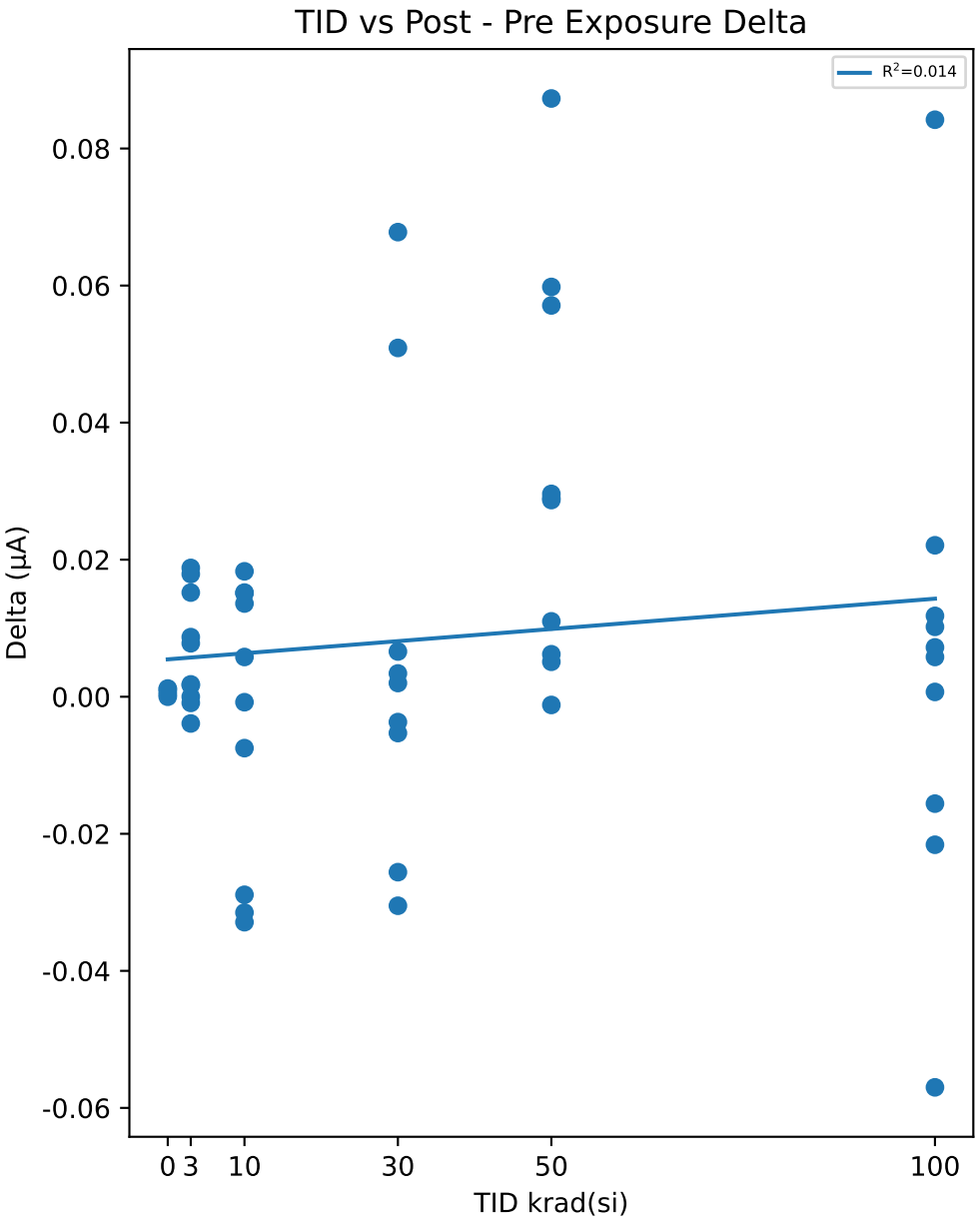
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2.6545	2.7236	2.8131	0.06253	2.6543	2.7243	2.8145	0.063239	-0.0002	0.00068	0.0015	0.0007791
3	2.6137	2.731	2.8142	0.068659	2.615	2.7379	2.8146	0.070823	-0.0037	0.00686	0.0189	0.0083069
10	2.5644	2.7454	2.8202	0.076025	2.5824	2.742	2.8139	0.068714	-0.034	-0.00341	0.018	0.02078
30	2.6057	2.732	2.8554	0.072625	2.6682	2.7396	2.8304	0.058181	-0.0292	0.0075778	0.0685	0.03244
50	2.6267	2.7572	2.8646	0.073094	2.6313	2.7883	2.9508	0.088159	-0.0004	0.03111	0.0862	0.02869
100	2.7176	2.7953	2.8547	0.040456	2.7014	2.7992	2.8617	0.042575	-0.0577	0.00388	0.084	0.036106

Device Test: 18.9 CURRENT|SS_0p3V/SS/12/12/0/1000/5/100kHz//@I_SS

TID vs Result Stats



TID vs Post - Pre Exposure Delta



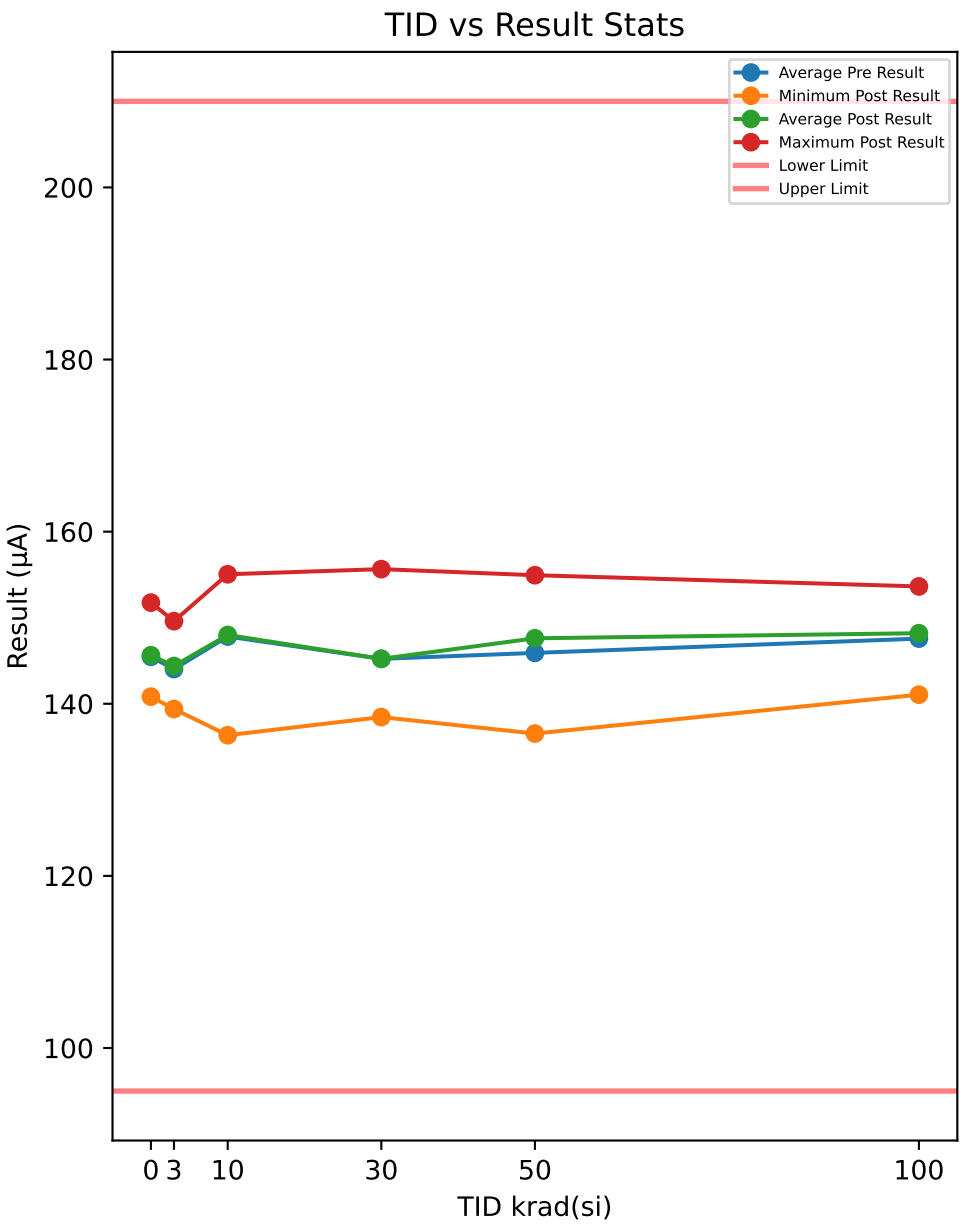
Test Results (Lower Limit = 2.0, Upper Limit = 3.4 (µA))

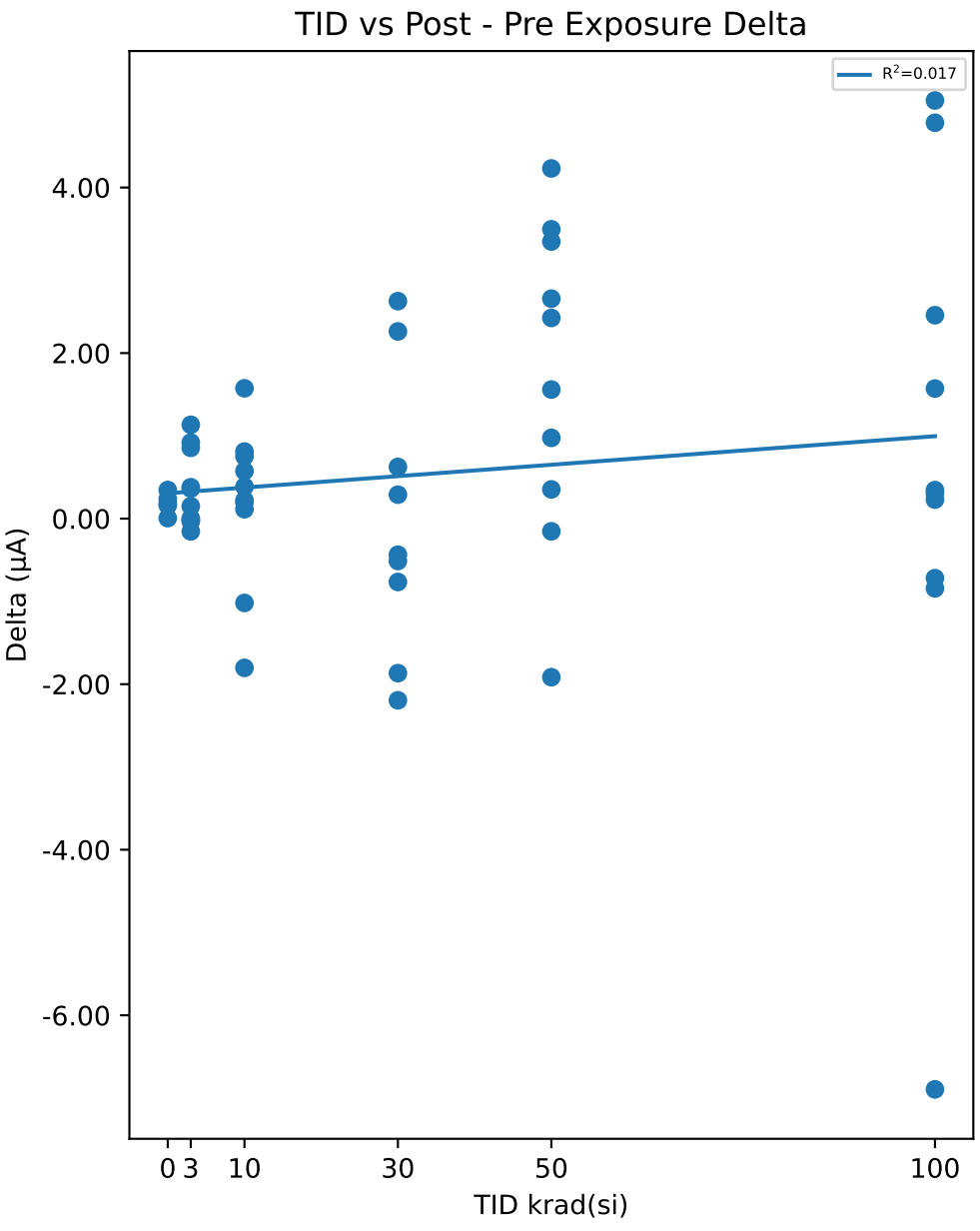
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	2.7732	2.8019	0.0287
411	100	Unbiased	2.7191	2.7035	-0.0156
444	30	Unbiased	2.7497	2.7444	-0.0053
454	10	Unbiased	2.8218	2.7929	-0.0289
491	3	Unbiased	2.7923	2.8001	0.0078
500	100	Unbiased	2.7642	2.7863	0.0221
534	100	Biased	2.8031	2.8038	0.0007
558	0	Correlation	2.8148	2.8159	0.0011
563	100	Biased	2.8254	2.8372	0.0118
570	3	Unbiased	2.685	2.7002	0.0152
614	10	Unbiased	2.7889	2.756	-0.0329
675	3	Biased	2.816	2.816	0
713	100	Unbiased	2.7983	2.8055	0.0072
744	50	Biased	2.8657	2.953	0.0873
799	50	Biased	2.6445	2.7016	0.0571
842	30	Unbiased	2.7453	2.7148	-0.0305
889	3	Unbiased	2.7765	2.7852	0.0087
901	3	Biased	2.6895	2.6856	-0.0039
930	50	Unbiased	2.7399	2.7509	0.011
968	100	Unbiased	2.7675	2.7777	0.0102
976	100	Unbiased	2.834	2.8124	-0.0216
981	3	Biased	2.7761	2.7752	-0.0009
1003	10	Biased	2.7413	2.7471	0.0058
1039	3	Biased	2.6535	2.6553	0.0018
1053	100	Biased	2.822	2.8278	0.0058
1056	0	Correlation	2.7045	2.7052	0.0007
1072	10	Biased	2.7954	2.7639	-0.0315
1095	50	Unbiased	2.7854	2.7842	-0.0012
1099	0	Correlation	2.6563	2.6563	0
1113	3	Biased	2.7263	2.7442	0.0179
1142	10	Unbiased	2.7566	2.7558	-0.0008
1154	10	Biased	2.679	2.6715	-0.0075
1215	50	Unbiased	2.7763	2.8053	0.029
1222	100	Biased	2.8552	2.7982	-0.057
1229	50	Unbiased	2.8005	2.8301	0.0296
1255	3	Unbiased	2.7948	2.8136	0.0188
1331	30	Unbiased	2.7571	2.7591	0.002
1359	30	Biased	2.7318	2.7827	0.0509
1375	30	Unbiased	2.6666	2.67	0.0034
1398	30	Biased	2.6918	2.6881	-0.0037
1411	50	Biased	2.8139	2.8737	0.0598
1465	10	Unbiased	2.7999	2.8151	0.0152
1474	50	Biased	2.6286	2.6337	0.0051
1504	50	Biased	2.7599	2.7661	0.0062
1540	100	Biased	2.7794	2.8636	0.0842
1554	3	Unbiased	2.6153	2.617	0.0017
1662	30	Biased	2.8566	2.831	-0.0256
1679	10	Biased	2.732	2.7471	0.0151
1697	10	Biased	2.5659	2.5842	0.0183
1703	30	Biased	2.6077	2.6755	0.0678
1704	10	Unbiased	2.7884	2.802	0.0136
1736	30	Biased	2.7959	2.8025	0.0066
1737	0	Correlation	2.6908	2.6911	0.0003
1748	0	Correlation	2.7604	2.7616	0.0012

Test Statistics (µA)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2.6563	2.7254	2.8148	0.062502	2.6563	2.726	2.8159	0.062964	0	0.00066	0.0012	0.00051284
3	2.6153	2.7325	2.816	0.068627	2.617	2.7392	2.816	0.070668	-0.0039	0.00671	0.0188	0.0082552
10	2.5659	2.7469	2.8218	0.075994	2.5842	2.7436	2.8151	0.068556	-0.0329	-0.00336	0.0183	0.020727
30	2.6077	2.7336	2.8566	0.072499	2.67	2.7409	2.831	0.057854	-0.0305	0.0072889	0.0678	0.032396
50	2.6286	2.7588	2.8657	0.072876	2.6337	2.79	2.953	0.088152	-0.0012	0.03126	0.0873	0.028701
100	2.7191	2.7968	2.8552	0.040209	2.7035	2.8016	2.8636	0.042655	-0.057	0.00478	0.0842	0.035959

Device Test: 19.10 CURRENT|EA_SOURCE//12/12/0/0/5/500kHz//@EA_I_SOURCE





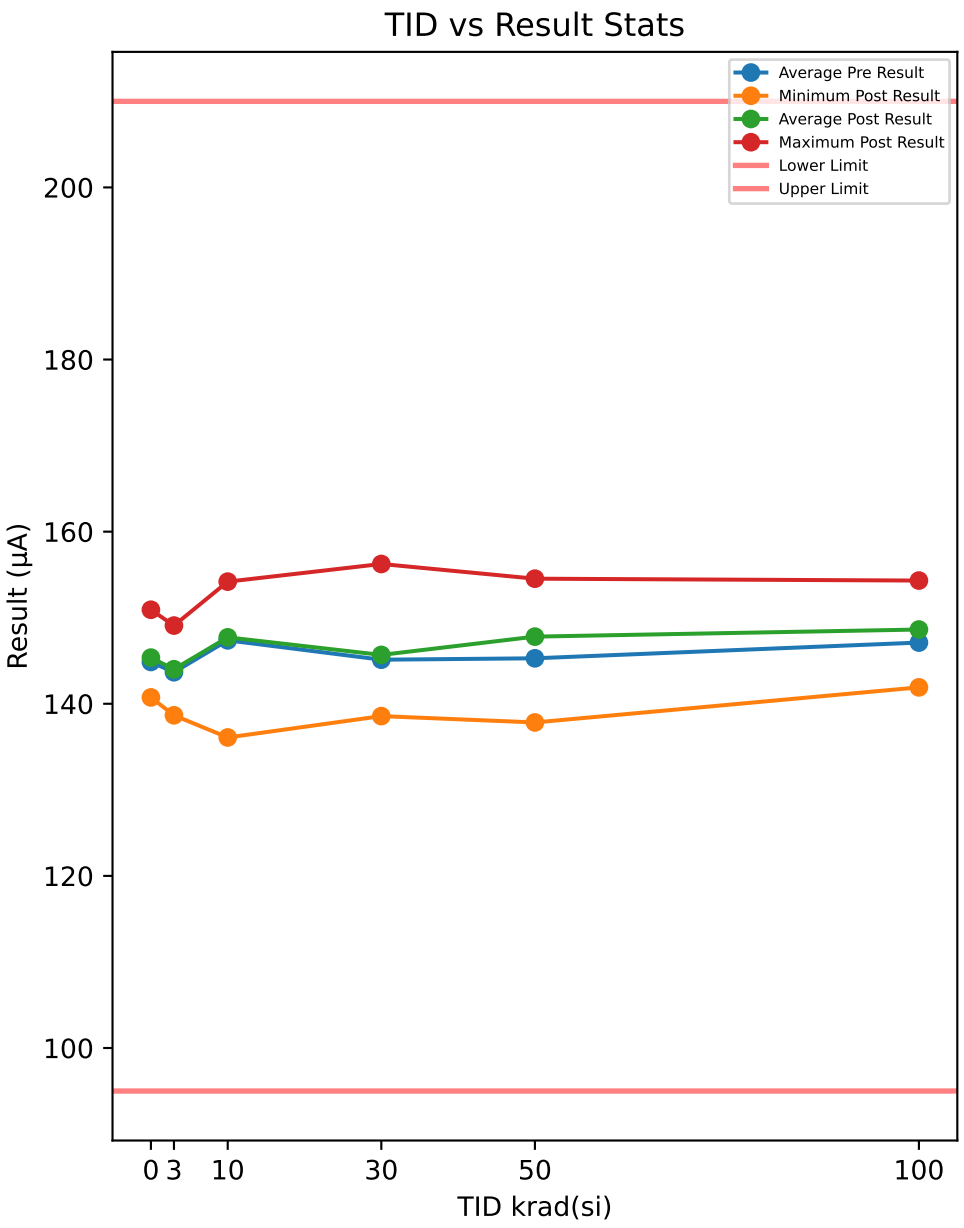
Test Results (Lower Limit = 95.0, Upper Limit = 210.0 (µA))

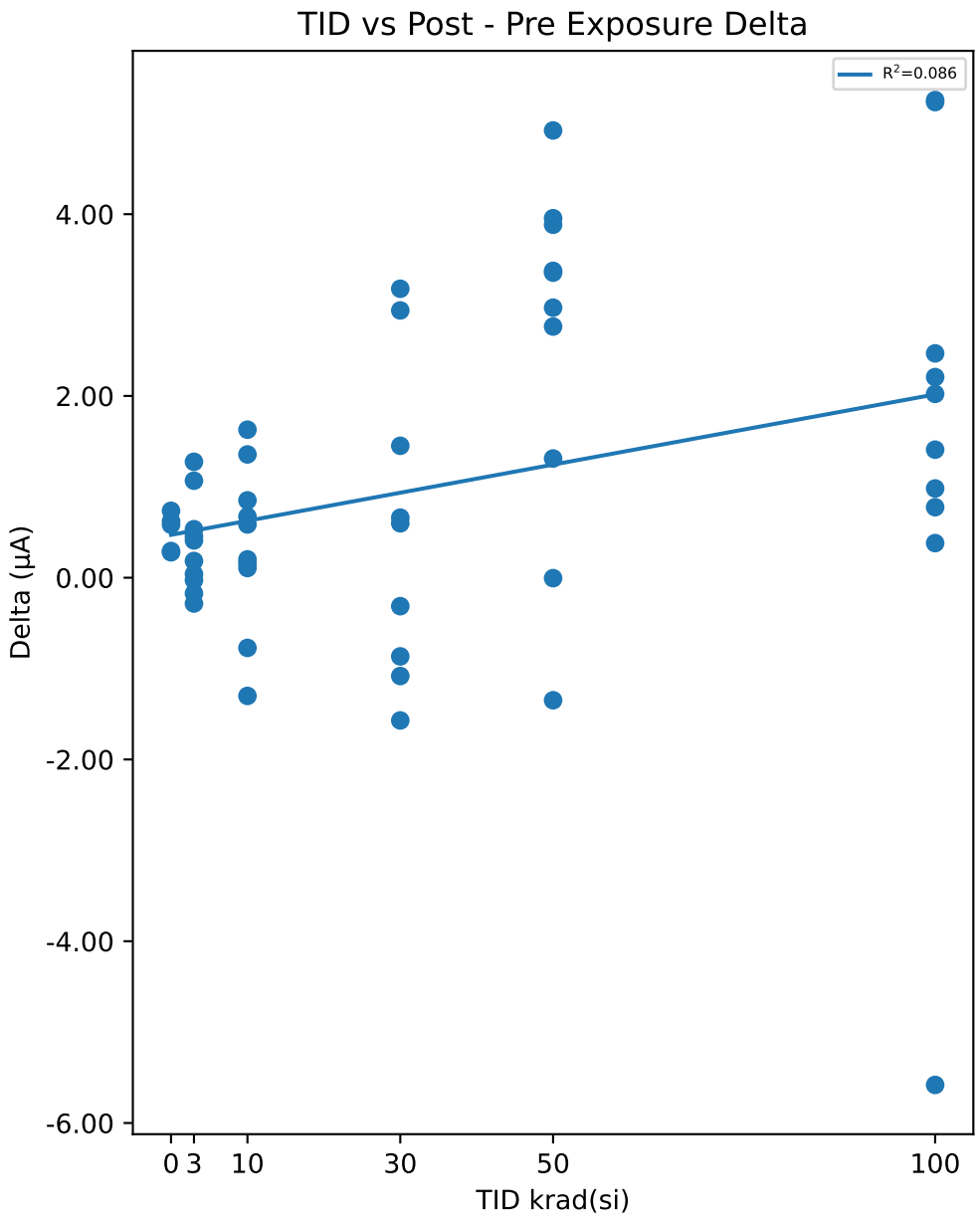
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	148.41	148.26	-0.1534
411	100	Unbiased	140.71	141.06	0.3442
444	30	Unbiased	138.16	138.45	0.2895
454	10	Unbiased	150.01	148.99	-1.0188
491	3	Unbiased	146.81	147.73	0.9193
500	100	Unbiased	143.29	143.52	0.2298
534	100	Biased	143.04	142.2	-0.8427
558	0	Correlation	151.74	151.75	0.0061
563	100	Biased	149.66	151.23	1.5712
570	3	Unbiased	141.31	141.68	0.3627
614	10	Unbiased	153.94	152.14	-1.803
675	3	Biased	147.82	147.82	0.0038
713	100	Unbiased	143.48	148.53	5.0516
744	50	Biased	145.68	149.17	3.4957
799	50	Biased	142.35	145.01	2.6572
842	30	Unbiased	143.92	144.54	0.6247
889	3	Unbiased	143.98	144.36	0.3796
901	3	Biased	139.55	139.39	-0.1542
930	50	Unbiased	152.15	153.71	1.5594
968	100	Unbiased	148.95	151.41	2.4576
976	100	Unbiased	149.83	150.13	0.3064
981	3	Biased	147.5	147.65	0.1503
1003	10	Biased	144.55	144.93	0.3863
1039	3	Biased	144.56	144.52	-0.0352
1053	100	Biased	150.71	149.99	-0.7192
1056	0	Correlation	145.03	145.37	0.3456
1072	10	Biased	148.65	148.87	0.2221
1095	50	Unbiased	146.12	146.47	0.3529
1099	0	Correlation	140.59	140.83	0.2393
1113	3	Biased	140.56	141.69	1.1334
1142	10	Unbiased	153.97	154.17	0.1956
1154	10	Biased	145.6	146.41	0.8108
1215	50	Unbiased	149.31	152.66	3.3473
1222	100	Biased	157.18	150.29	-6.8948
1229	50	Unbiased	150.71	154.94	4.2305
1255	3	Unbiased	148.75	149.6	0.8554
1331	30	Unbiased	139.61	139.1	-0.5116
1359	30	Biased	143.45	145.71	2.2614
1375	30	Unbiased	144.49	143.73	-0.7654
1398	30	Biased	143.58	141.38	-2.195
1411	50	Biased	137.6	140.03	2.4246
1465	10	Unbiased	150.71	150.82	0.1137
1474	50	Biased	135.56	136.54	0.9757
1504	50	Biased	151.2	149.29	-1.9157
1540	100	Biased	148.85	153.64	4.7824
1554	3	Unbiased	139.46	139.44	-0.0149
1662	30	Biased	156.08	155.64	-0.4361
1679	10	Biased	141.63	142.2	0.5748
1697	10	Biased	135.59	136.35	0.7521
1703	30	Biased	148.76	151.39	2.6272
1704	10	Unbiased	153.47	155.05	1.5744
1736	30	Biased	148.92	147.05	-1.867
1737	0	Correlation	141.88	142.06	0.1841
1748	0	Correlation	148.04	148.2	0.1609

Test Statistics (µA)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	140.59	145.46	151.74	4.5521	140.83	145.64	151.75	4.4697	0.0061	0.1872	0.3456	0.1238
3	139.46	144.03	148.75	3.6065	139.39	144.39	149.6	3.724	-0.1542	0.36002	1.1334	0.45811
10	135.59	147.81	153.97	6.0058	136.35	147.99	155.05	5.7344	-1.803	0.1808	1.5744	0.95707
30	138.16	145.22	156.08	5.4024	138.45	145.22	155.64	5.6013	-2.195	0.0030778	2.6272	1.652
50	135.56	145.91	152.15	5.7417	136.54	147.61	154.94	5.8715	-1.9157	1.6974	4.2305	1.9047
100	140.71	147.57	157.18	4.919	141.06	148.2	153.64	4.3373	-6.8948	0.62865	5.0516	3.3661

Device Test: 19.11 CURRENT|EA_SINK//12/12/0/0/5/500kHz//@EA_I_SINK





Test Results (Lower Limit = 95.0, Upper Limit = 210.0 (µA))

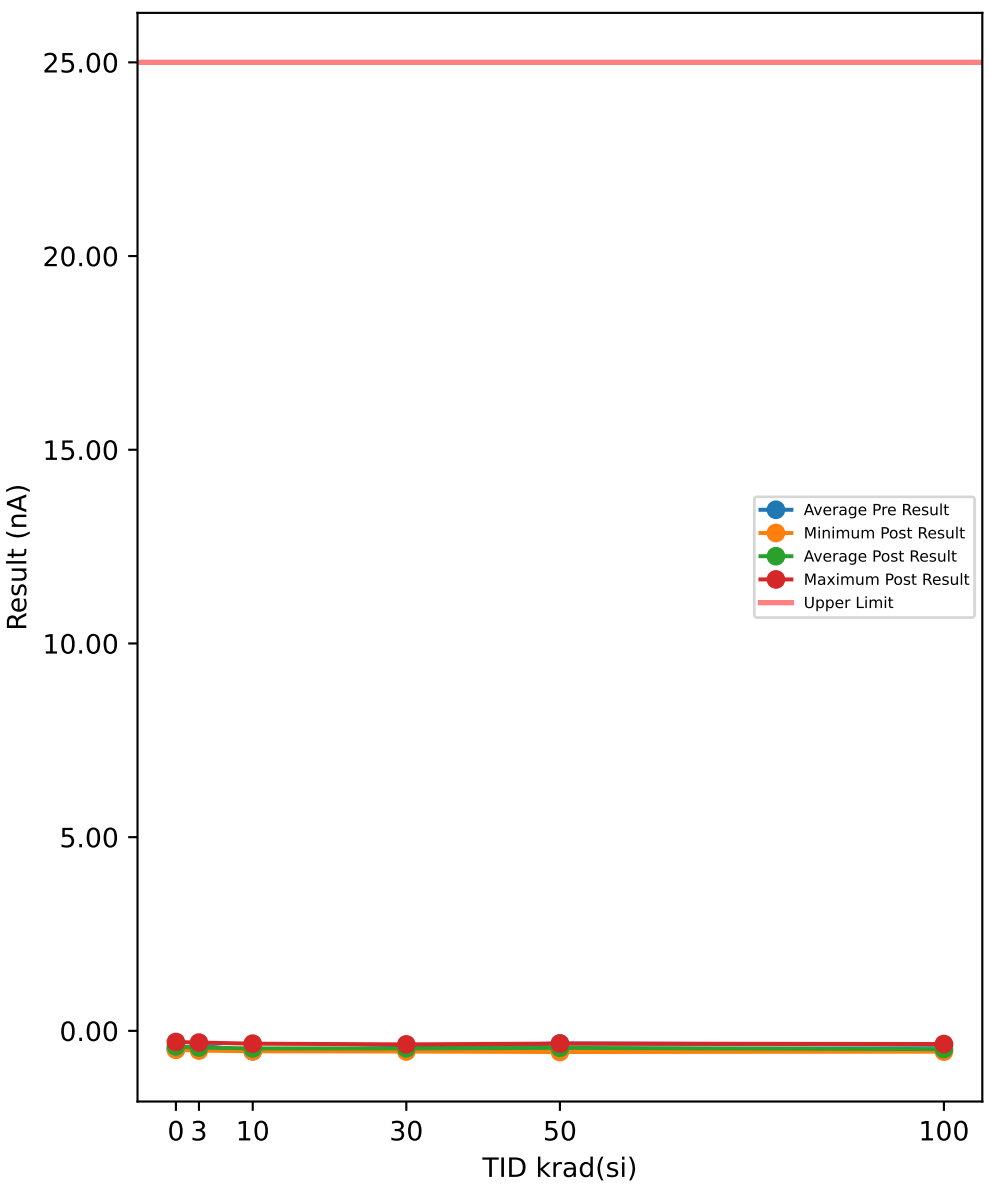
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	147.89	147.88	-0.005
411	100	Unbiased	139.75	141.96	2.2075
444	30	Unbiased	137.97	138.57	0.5985
454	10	Unbiased	150.19	149.42	-0.7725
491	3	Unbiased	147.36	148.63	1.2754
500	100	Unbiased	141.13	141.91	0.7756
534	100	Biased	142.06	142.44	0.3806
558	0	Correlation	150.34	150.92	0.5831
563	100	Biased	149.05	151.08	2.0224
570	3	Unbiased	140	140.45	0.4561
614	10	Unbiased	153.57	152.27	-1.3007
675	3	Biased	146.6	146.78	0.1837
713	100	Unbiased	143.36	148.62	5.2554
744	50	Biased	145.5	149.38	3.8837
799	50	Biased	142.2	145.17	2.9709
842	30	Unbiased	143.21	144.66	1.4515
889	3	Unbiased	143.71	144.24	0.5335
901	3	Biased	138.94	138.66	-0.2838
930	50	Unbiased	150	153.37	3.3761
968	100	Unbiased	149.24	151.71	2.4683
976	100	Unbiased	149.05	150.03	0.9816
981	3	Biased	147.89	147.93	0.0399
1003	10	Biased	144.12	144.7	0.5858
1039	3	Biased	144.58	144.55	-0.028
1053	100	Biased	149.59	151	1.4089
1056	0	Correlation	144.64	144.92	0.2793
1072	10	Biased	148.55	148.66	0.1065
1095	50	Unbiased	146.79	148.1	1.3116
1099	0	Correlation	140	140.74	0.7361
1113	3	Biased	139.84	140.91	1.0673
1142	10	Unbiased	152.83	154.19	1.3564
1154	10	Biased	144.99	145.84	0.8509
1215	50	Unbiased	148.46	151.81	3.3565
1222	100	Biased	158.8	153.21	-5.581
1229	50	Unbiased	149.61	154.53	4.9212
1255	3	Unbiased	148.68	149.09	0.4102
1331	30	Unbiased	139.73	140.39	0.6608
1359	30	Biased	143.73	146.91	3.1793
1375	30	Unbiased	144.68	143.81	-0.8658
1398	30	Biased	143.26	141.69	-1.5705
1411	50	Biased	138.71	142.67	3.9555
1465	10	Unbiased	148.83	149.03	0.2018
1474	50	Biased	135.07	137.83	2.7636
1504	50	Biased	148.61	147.27	-1.3485
1540	100	Biased	149.08	154.32	5.2329
1554	3	Unbiased	139.06	138.88	-0.1726
1662	30	Biased	156.56	156.24	-0.3134
1679	10	Biased	142.98	143.13	0.1582
1697	10	Biased	135.41	136.08	0.6733
1703	30	Biased	148.17	151.11	2.9408
1704	10	Unbiased	152.23	153.86	1.6286
1736	30	Biased	148.8	147.71	-1.0818
1737	0	Correlation	141.6	141.89	0.2938
1748	0	Correlation	147.7	148.32	0.6235

Test Statistics (µA)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	140	144.86	150.34	4.2541	140.74	145.36	150.92	4.2813	0.2793	0.50316	0.7361	0.2056
3	138.94	143.66	148.68	3.9103	138.66	144.01	149.09	4.0507	-0.2838	0.34817	1.2754	0.51218
10	135.41	147.37	153.57	5.5973	136.08	147.72	154.19	5.5254	-1.3007	0.34883	1.6286	0.89203
30	137.97	145.12	156.56	5.5121	138.57	145.68	156.24	5.5427	-1.5705	0.55549	3.1793	1.709
50	135.07	145.28	150	5.0366	137.83	147.8	154.53	5.034	-1.3485	2.5186	4.9212	1.9489
100	139.75	147.11	158.8	5.6578	141.91	148.63	154.32	4.7653	-5.581	1.5152	5.2554	3.0174

Device Test: 19.12 CURRENT|EA//12/12/0/0/5/500kHz//@EA_IB

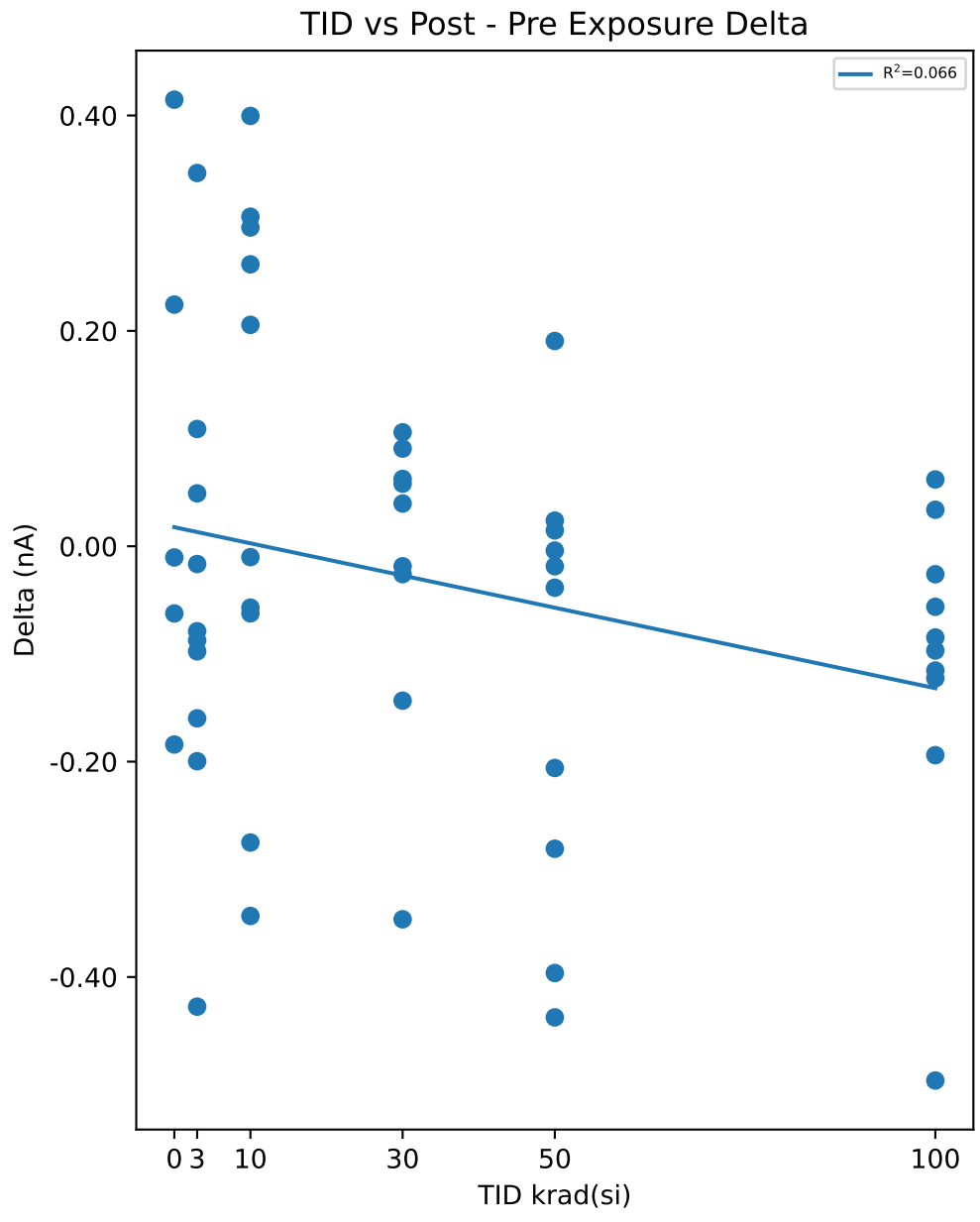
TID vs Result Stats



Test Results (Upper Limit = 25.0 (nA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	-0.1092	-0.5055	-0.3963
411	100	Unbiased	-0.4057	-0.5211	-0.1154
444	30	Unbiased	-0.3309	-0.4743	-0.1434
454	10	Unbiased	-0.7117	-0.5061	0.2056
491	3	Unbiased	-0.4244	-0.3155	0.1089
500	100	Unbiased	-0.3152	-0.5092	-0.194
534	100	Biased	-0.4963	-0.4624	0.0339
558	0	Correlation	-0.5118	-0.2874	0.2244
563	100	Biased	-0.3558	-0.412	-0.0562
570	3	Unbiased	-0.4048	-0.4213	-0.0165
614	10	Unbiased	-0.3207	-0.3308	-0.0101
675	3	Biased	-0.0437	-0.4712	-0.4275
713	100	Unbiased	-0.4141	-0.5367	-0.1226
744	50	Biased	-0.1092	-0.5467	-0.4375
799	50	Biased	-0.4203	-0.4588	-0.0385
842	30	Unbiased	-0.1654	-0.5118	-0.3464
889	3	Unbiased	-0.3363	-0.4961	-0.1598
901	3	Biased	-0.2872	-0.4868	-0.1996
930	50	Unbiased	-0.1061	-0.387	-0.2809
968	100	Unbiased	-0.4025	-0.3405	0.062
976	100	Unbiased	-0.4982	-0.5242	-0.026
981	3	Biased	-0.3923	-0.4712	-0.0789
1003	10	Biased	-0.1591	-0.4342	-0.2751
1039	3	Biased	-0.2996	-0.3869	-0.0873
1053	100	Biased	-0.0406	-0.5367	-0.4961
1056	0	Correlation	-0.8427	-0.428	0.4147
1072	10	Biased	-0.7928	-0.3932	0.3996
1095	50	Unbiased	-0.3518	-0.328	0.0238
1099	0	Correlation	-0.2403	-0.4244	-0.1841
1113	3	Biased	-0.411	-0.5086	-0.0976
1142	10	Unbiased	-0.7054	-0.4436	0.2618
1154	10	Biased	-0.7491	-0.4431	0.306
1215	50	Unbiased	-0.6087	-0.4181	0.1906
1222	100	Biased	-0.3682	-0.465	-0.0968
1229	50	Unbiased	-0.3892	-0.3745	0.0147
1255	3	Unbiased	-0.7991	-0.4525	0.3466
1331	30	Unbiased	-0.5244	-0.4619	0.0625
1359	30	Biased	-0.6243	-0.5336	0.0907
1375	30	Unbiased	-0.4682	-0.4868	-0.0186
1398	30	Biased	-0.4557	-0.3499	0.1058
1411	50	Biased	-0.2465	-0.4524	-0.2059
1465	10	Unbiased	-0.1716	-0.5149	-0.3433
1474	50	Biased	-0.411	-0.415	-0.004
1504	50	Biased	-0.4963	-0.5149	-0.0186
1540	100	Biased	-0.3245	-0.4092	-0.0847
1554	3	Unbiased	-0.3518	-0.3027	0.0491
1662	30	Biased	-0.4328	-0.4587	-0.0259
1679	10	Biased	-0.824	-0.528	0.296
1697	10	Biased	-0.3892	-0.4462	-0.057
1703	30	Biased	-0.5075	-0.4494	0.0581
1704	10	Unbiased	-0.4369	-0.4992	-0.0623
1736	30	Biased	-0.3892	-0.3495	0.0397
1737	0	Correlation	-0.4764	-0.4868	-0.0104
1748	0	Correlation	-0.3245	-0.3869	-0.0624

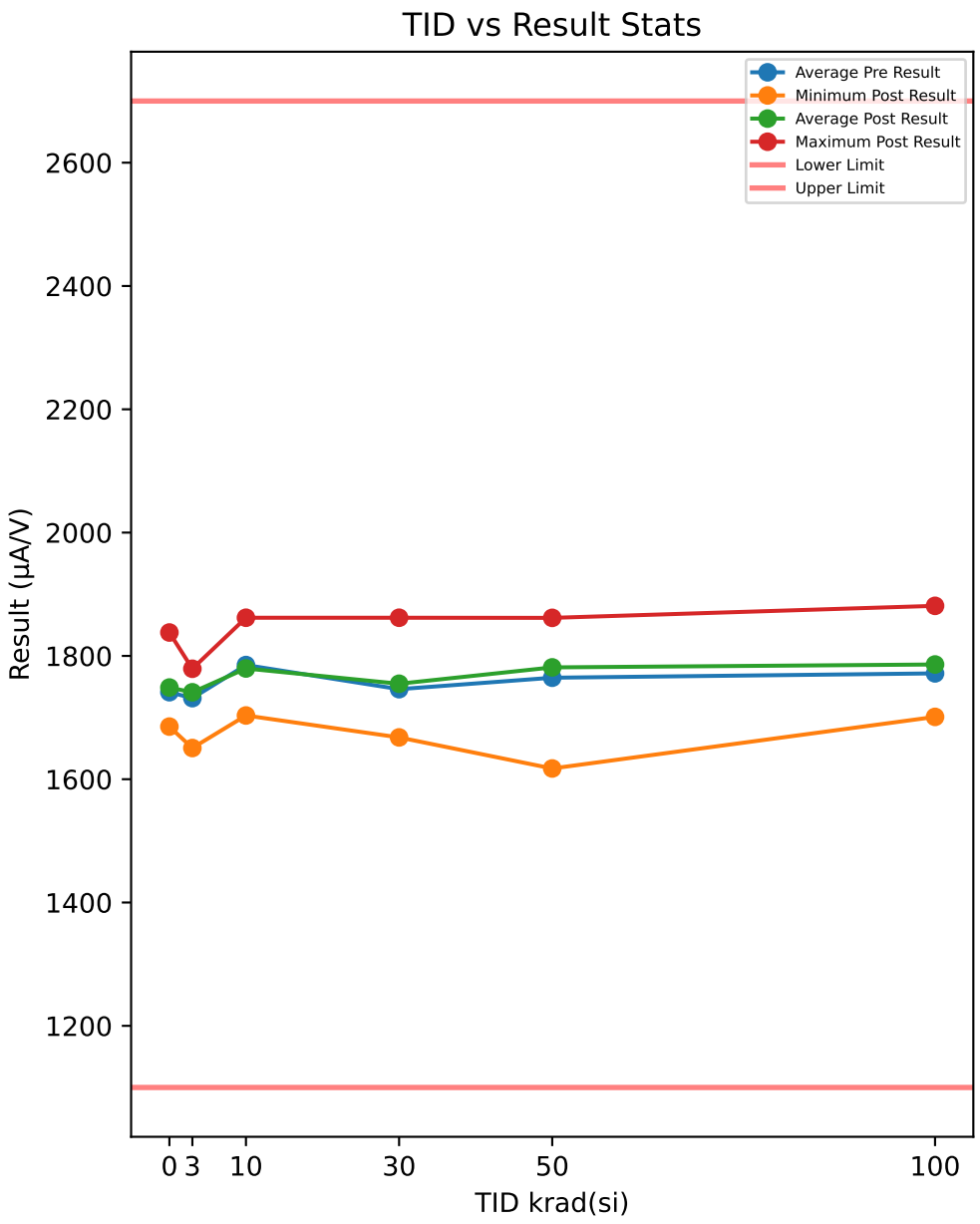
TID vs Post - Pre Exposure Delta

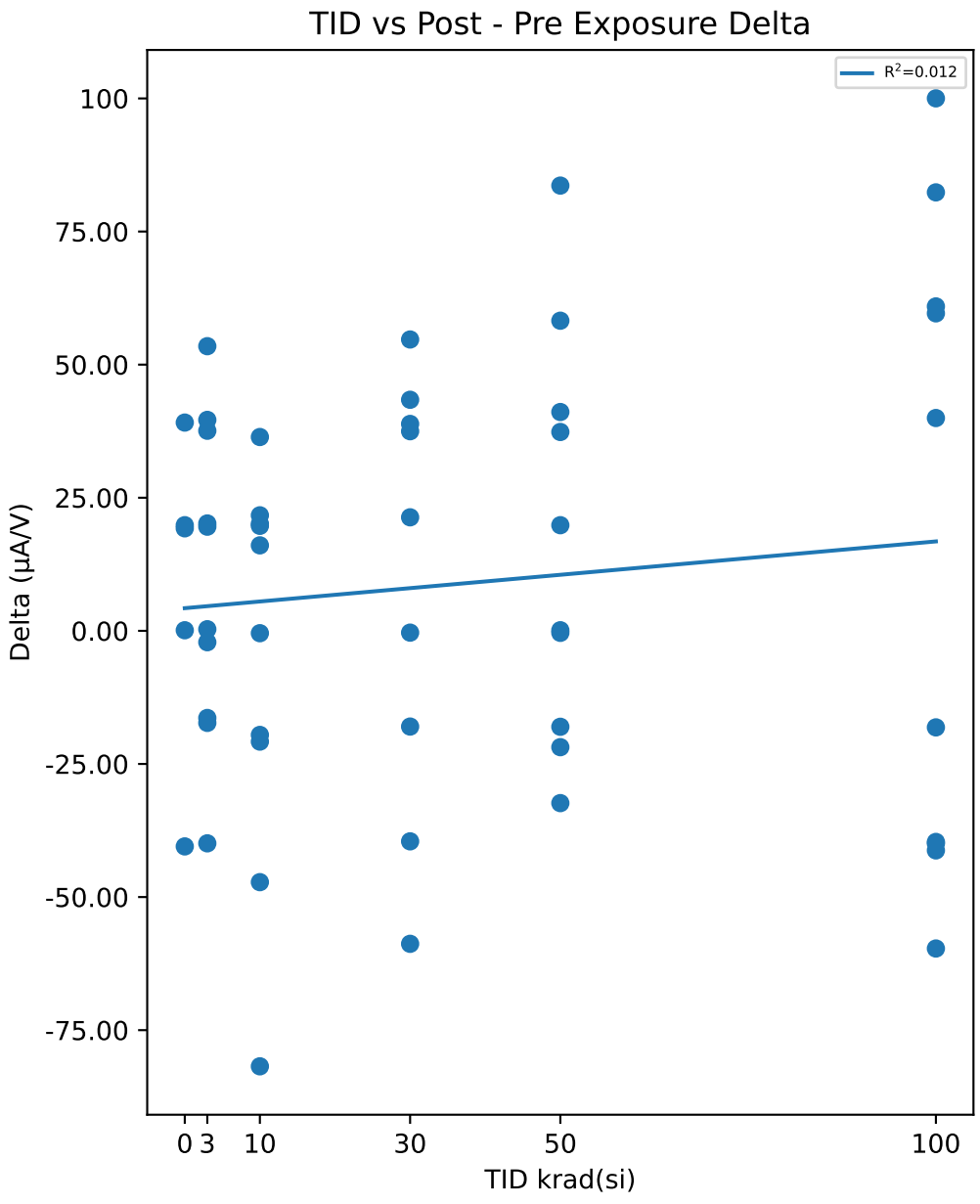


Test Statistics (nA)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.8427	-0.47914	-0.2403	0.23141	-0.4868	-0.4027	-0.2874	0.073701	-0.1841	0.07644	0.4147	0.24032
3	-0.7991	-0.37502	-0.0437	0.18558	-0.5086	-0.43128	-0.3027	0.073716	-0.4275	-0.05626	0.3466	0.204
10	-0.824	-0.52605	-0.1591	0.25937	-0.528	-0.45393	-0.3308	0.061007	-0.3433	0.07212	0.3996	0.25831
30	-0.6243	-0.43316	-0.1654	0.13048	-0.5336	-0.45288	-0.3495	0.064242	-0.3464	-0.019722	0.1058	0.1442
50	-0.6087	-0.32483	-0.1061	0.17587	-0.5467	-0.44009	-0.328	0.068751	-0.4375	-0.11526	0.1906	0.20436
100	-0.4982	-0.36211	-0.0406	0.12902	-0.5367	-0.4717	-0.3405	0.066557	-0.4961	-0.10959	0.062	0.15541

Device Test: 19.13 LEVEL|TRANSCONDUCTANCE//14/14/0/0/5/500kHz//@EA_GM





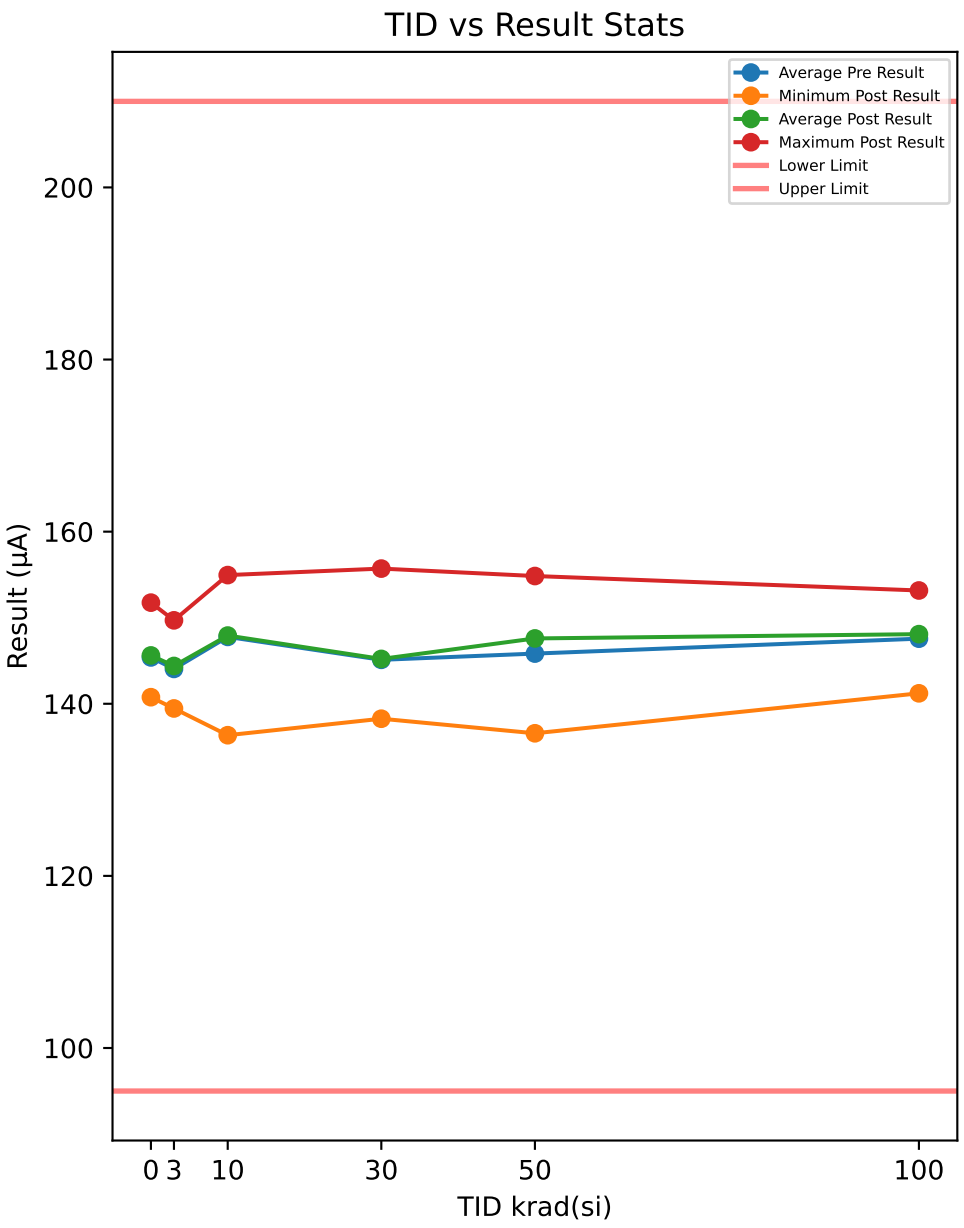
Test Results (Lower Limit = 1100.0, Upper Limit = 2700.0 (µA/V))

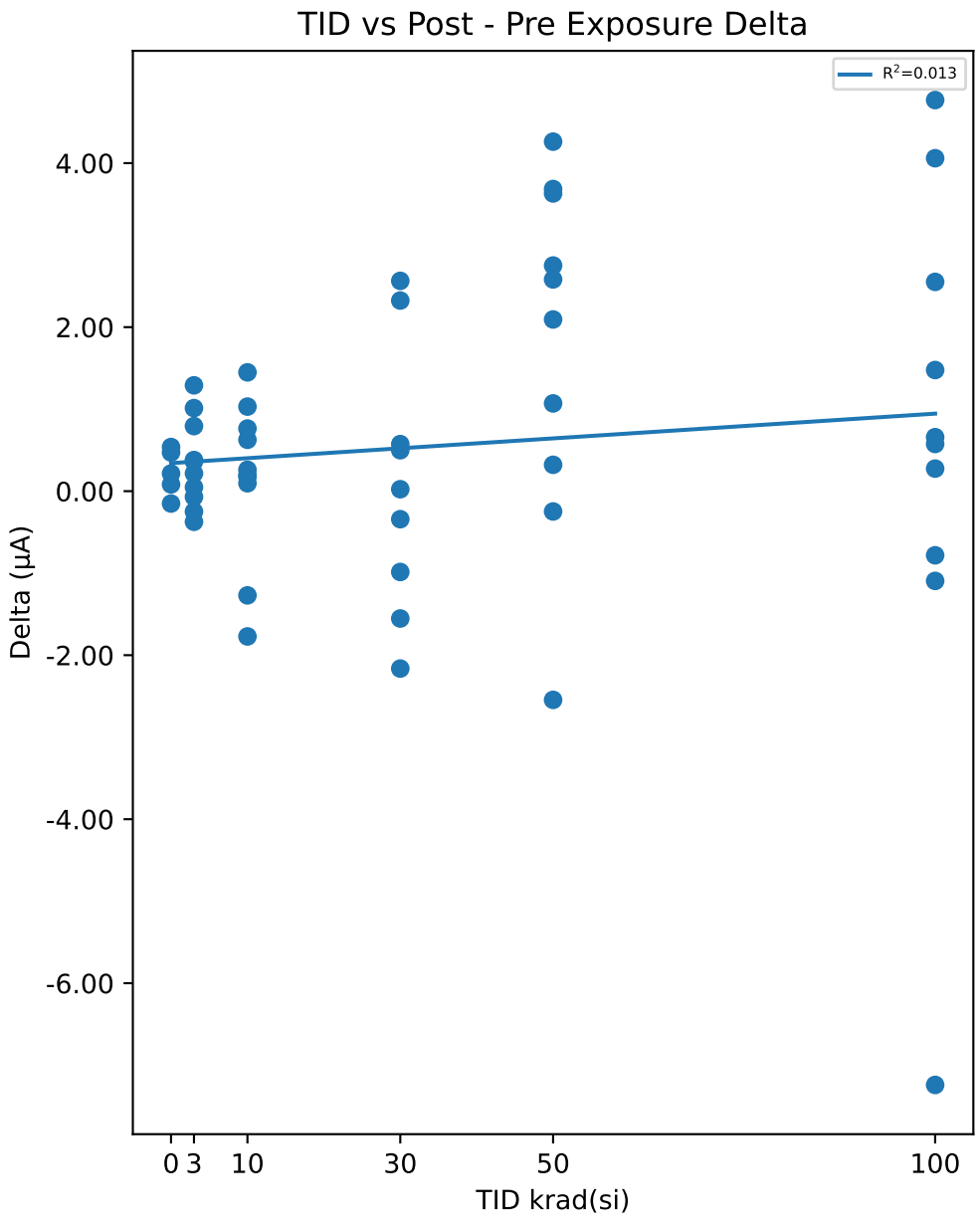
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	1759.3	1779.2	19.842
411	100	Unbiased	1721.5	1703.4	-18.133
444	30	Unbiased	1685.8	1685.4	-0.3387
454	10	Unbiased	1819.9	1738.1	-81.795
491	3	Unbiased	1759.3	1757.2	-2.1375
500	100	Unbiased	1759.3	1719.4	-39.937
534	100	Biased	1740.7	1701.1	-39.651
558	0	Correlation	1798.8	1838	39.118
563	100	Biased	1779.4	1819.4	39.974
570	3	Unbiased	1720.7	1740.3	19.563
614	10	Unbiased	1818.5	1799	-19.548
675	3	Biased	1778.9	1779.2	0.3018
713	100	Unbiased	1739.4	1799.1	59.632
744	50	Biased	1759.3	1796.7	37.351
799	50	Biased	1720.7	1779	58.249
842	30	Unbiased	1740.2	1779.1	38.862
889	3	Unbiased	1739.4	1759.6	20.168
901	3	Biased	1668.2	1721.7	53.463
930	50	Unbiased	1840.2	1840.3	0.111
968	100	Unbiased	1759.3	1859.3	100.01
976	100	Unbiased	1758.6	1819.5	60.933
981	3	Biased	1739.4	1779.1	39.62
1003	10	Biased	1740.2	1719.4	-20.804
1039	3	Biased	1722	1759.6	37.585
1053	100	Biased	1819.3	1759.6	-59.666
1056	0	Correlation	1759.9	1719.4	-40.49
1072	10	Biased	1779.4	1779	-0.4434
1095	50	Unbiased	1818.5	1796.7	-21.85
1099	0	Correlation	1685.2	1685.3	0.11
1113	3	Biased	1720.7	1703.5	-17.288
1142	10	Unbiased	1906.5	1859.3	-47.203
1154	10	Biased	1779.4	1799.1	19.721
1215	50	Unbiased	1799.4	1840.5	41.099
1222	100	Biased	1840.2	1799	-41.24
1229	50	Unbiased	1778.1	1861.7	83.629
1255	3	Unbiased	1799.4	1759.5	-39.913
1331	30	Unbiased	1685.8	1667.8	-17.981
1359	30	Biased	1685.8	1740.5	54.721
1375	30	Unbiased	1722	1759.5	37.492
1398	30	Biased	1759.9	1701.1	-58.786
1411	50	Biased	1721.5	1703.5	-18.021
1465	10	Unbiased	1778.9	1799	20.104
1474	50	Biased	1649.8	1617.4	-32.358
1504	50	Biased	1799.4	1799	-0.3763
1540	100	Biased	1798.8	1881.2	82.355
1554	3	Unbiased	1667	1650.6	-16.367
1662	30	Biased	1818.5	1861.9	43.4
1679	10	Biased	1722	1738.1	16.056
1697	10	Biased	1667	1703.4	36.404
1703	30	Biased	1798.1	1819.4	21.322
1704	10	Unbiased	1840.2	1861.9	21.699
1736	30	Biased	1818.5	1779	-39.539
1737	0	Correlation	1702.4	1721.7	19.252
1748	0	Correlation	1759.3	1779.2	19.842

Test Statistics (µA/V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1685.2	1741.1	1798.8	46.464	1685.3	1748.7	1838	60.207	-40.49	7.5662	39.118	30.198
3	1667	1731.5	1799.4	42.489	1650.6	1741	1779.2	39.664	-39.913	9.4995	53.463	29.613
10	1667	1785.2	1906.5	66.803	1703.4	1779.6	1861.9	54.925	-81.795	-5.5808	36.404	36.922
30	1685.8	1746.1	1818.5	55.801	1667.8	1754.9	1861.9	63.553	-58.786	8.7948	54.721	40.148
50	1649.8	1764.6	1840.2	56.031	1617.4	1781.4	1861.7	72.397	-32.358	16.768	83.629	37.863
100	1721.5	1771.7	1840.2	37.642	1701.1	1786.1	1881.2	63.412	-59.666	14.428	100.01	59.932

Device Test: 19.14 CURRENT|EA_SOURCE//14/14/0/0/5/500kHz//@EA_I_SOURCE





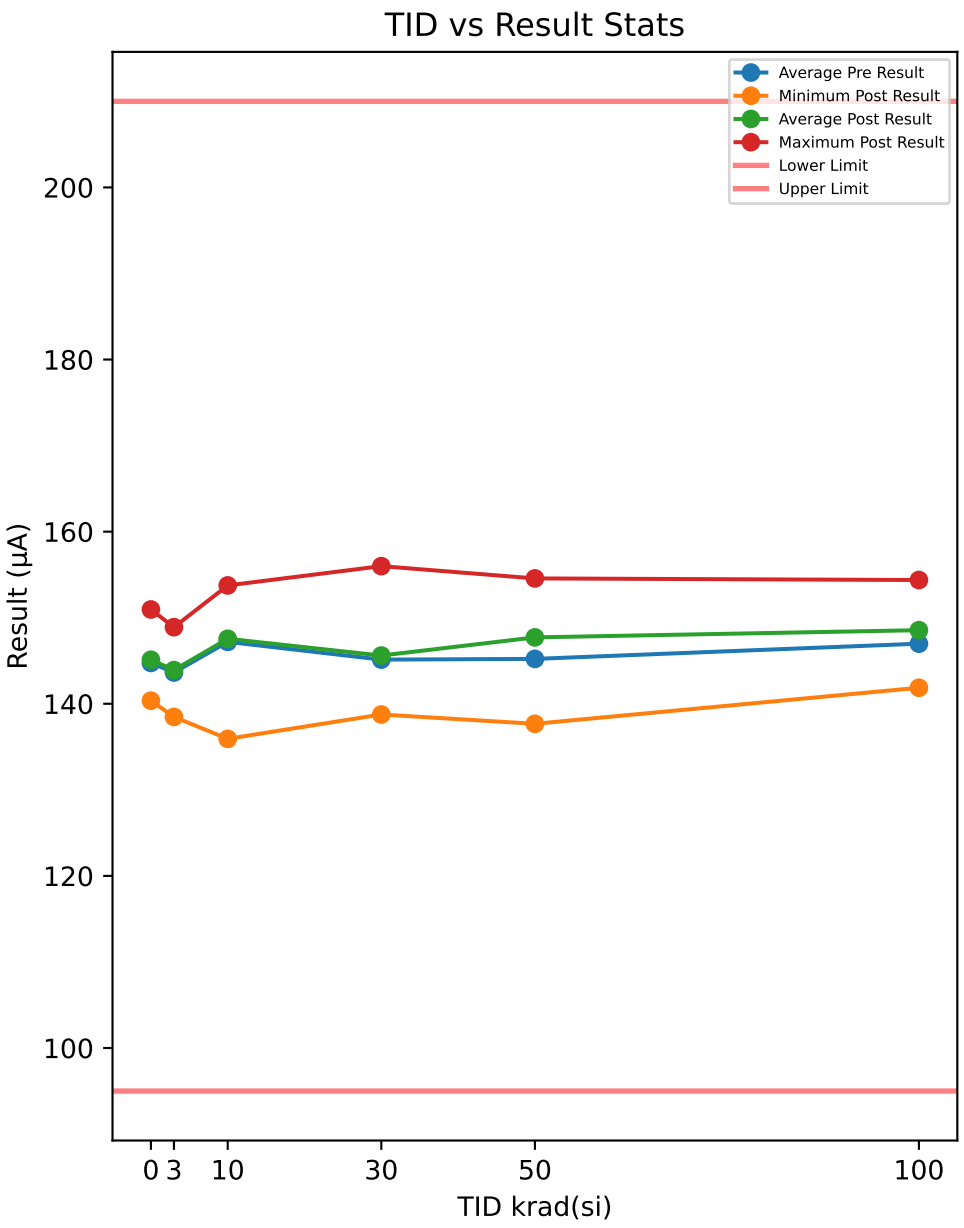
Test Results (Lower Limit = 95.0, Upper Limit = 210.0 (µA))

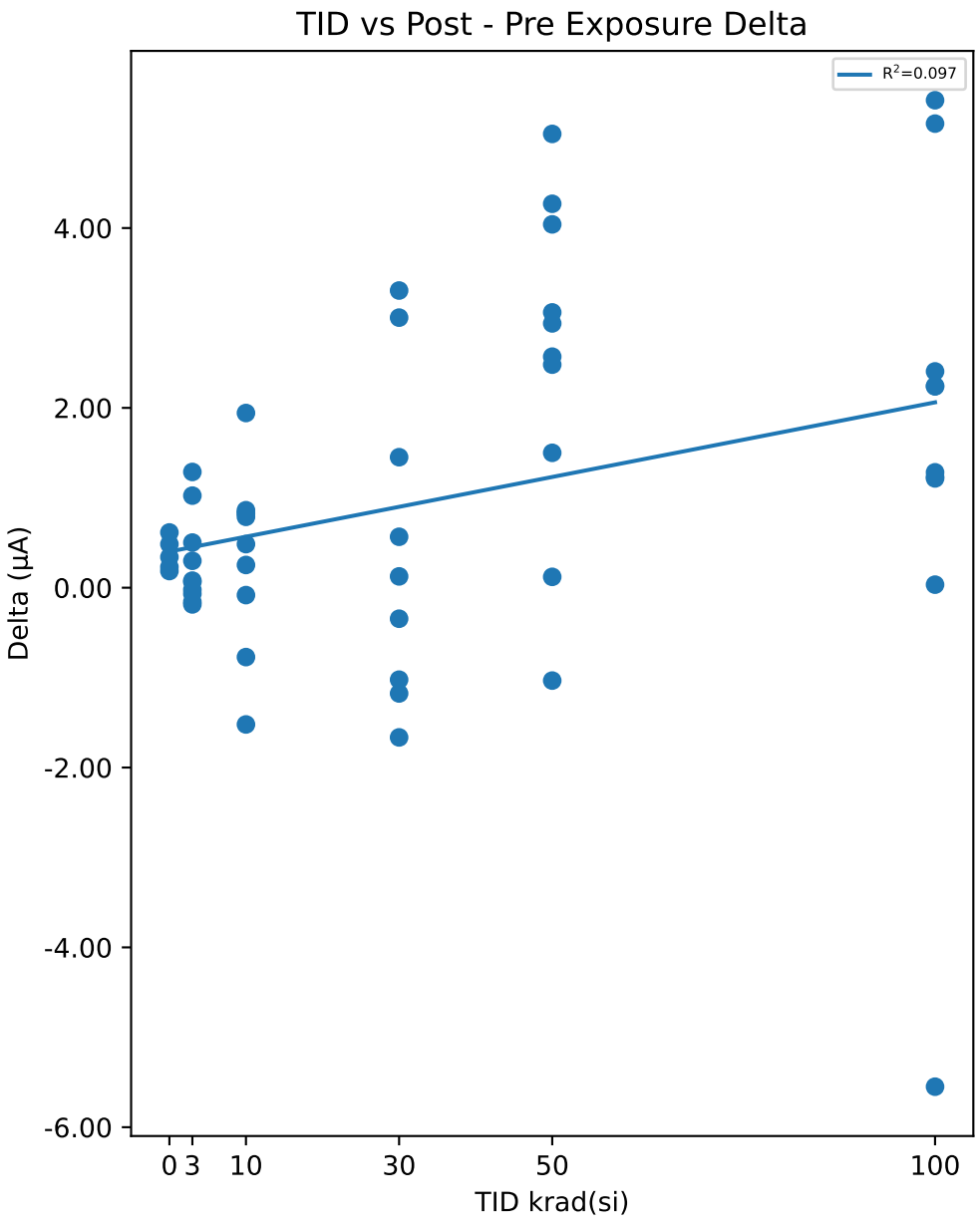
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	148.44	148.2	-0.2476
411	100	Unbiased	140.56	141.21	0.6583
444	30	Unbiased	137.69	138.26	0.5736
454	10	Unbiased	150.26	148.99	-1.2708
491	3	Unbiased	147.06	147.86	0.7935
500	100	Unbiased	143.26	143.83	0.5753
534	100	Biased	143.17	142.08	-1.0944
558	0	Correlation	151.9	151.75	-0.151
563	100	Biased	149.6	151.07	1.477
570	3	Unbiased	141.22	141.58	0.3626
614	10	Unbiased	153.76	151.98	-1.7715
675	3	Biased	148.07	147.69	-0.3733
713	100	Unbiased	143.51	148.28	4.769
744	50	Biased	145.49	149.17	3.6843
799	50	Biased	142.22	144.98	2.7515
842	30	Unbiased	143.95	144.45	0.4991
889	3	Unbiased	143.92	144.3	0.3795
901	3	Biased	139.7	139.46	-0.2488
930	50	Unbiased	151.65	153.74	2.0936
968	100	Unbiased	148.85	151.41	2.5519
976	100	Unbiased	149.67	149.95	0.2751
981	3	Biased	147.66	147.59	-0.0696
1003	10	Biased	144.48	144.75	0.2606
1039	3	Biased	144.34	144.55	0.2167
1053	100	Biased	150.68	149.89	-0.7821
1056	0	Correlation	144.93	145.41	0.4715
1072	10	Biased	148.71	148.81	0.0962
1095	50	Unbiased	146.09	146.41	0.3215
1099	0	Correlation	140.68	140.76	0.0822
1113	3	Biased	140.43	141.72	1.2905
1142	10	Unbiased	153.75	153.95	0.1962
1154	10	Biased	145.44	146.47	1.0311
1215	50	Unbiased	149.25	152.88	3.6302
1222	100	Biased	157.24	150	-7.2405
1229	50	Unbiased	150.58	154.84	4.2619
1255	3	Unbiased	148.68	149.69	1.0126
1331	30	Unbiased	139.17	139.19	0.0236
1359	30	Biased	143.45	145.78	2.3243
1375	30	Unbiased	144.62	143.63	-0.9856
1398	30	Biased	143.52	141.35	-2.1634
1411	50	Biased	137.44	140.03	2.5818
1465	10	Unbiased	150.58	150.76	0.1765
1474	50	Biased	135.5	136.57	1.07
1504	50	Biased	151.64	149.1	-2.5451
1540	100	Biased	149.1	153.16	4.0597
1554	3	Unbiased	139.43	139.48	0.0479
1662	30	Biased	156.05	155.71	-0.3418
1679	10	Biased	141.5	142.26	0.7636
1697	10	Biased	135.72	136.35	0.6264
1703	30	Biased	148.7	151.26	2.5644
1704	10	Unbiased	153.5	154.95	1.4488
1736	30	Biased	148.82	147.27	-1.5527
1737	0	Correlation	141.75	141.97	0.2156
1748	0	Correlation	147.66	148.2	0.5381

Test Statistics (µA)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	140.68	145.39	151.9	4.5595	140.76	145.62	151.75	4.5052	-0.151	0.23128	0.5381	0.28304
3	139.43	144.05	148.68	3.6689	139.46	144.39	149.69	3.7244	-0.3733	0.34116	1.2905	0.54644
10	135.72	147.77	153.76	5.9651	136.35	147.93	154.95	5.6809	-1.7715	0.15571	1.4488	0.98855
30	137.69	145.11	156.05	5.5177	138.26	145.21	155.71	5.6325	-2.1634	0.10461	2.5644	1.6062
50	135.5	145.83	151.65	5.7637	136.57	147.59	154.84	5.8736	-2.5451	1.7602	4.2619	2.1171
100	140.56	147.56	157.24	4.937	141.21	148.09	153.16	4.1846	-7.2405	0.52493	4.769	3.3373

Device Test: 19.15 CURRENT|EA_SINK//14/14/0/0/5/500kHz//@EA_I_SINK





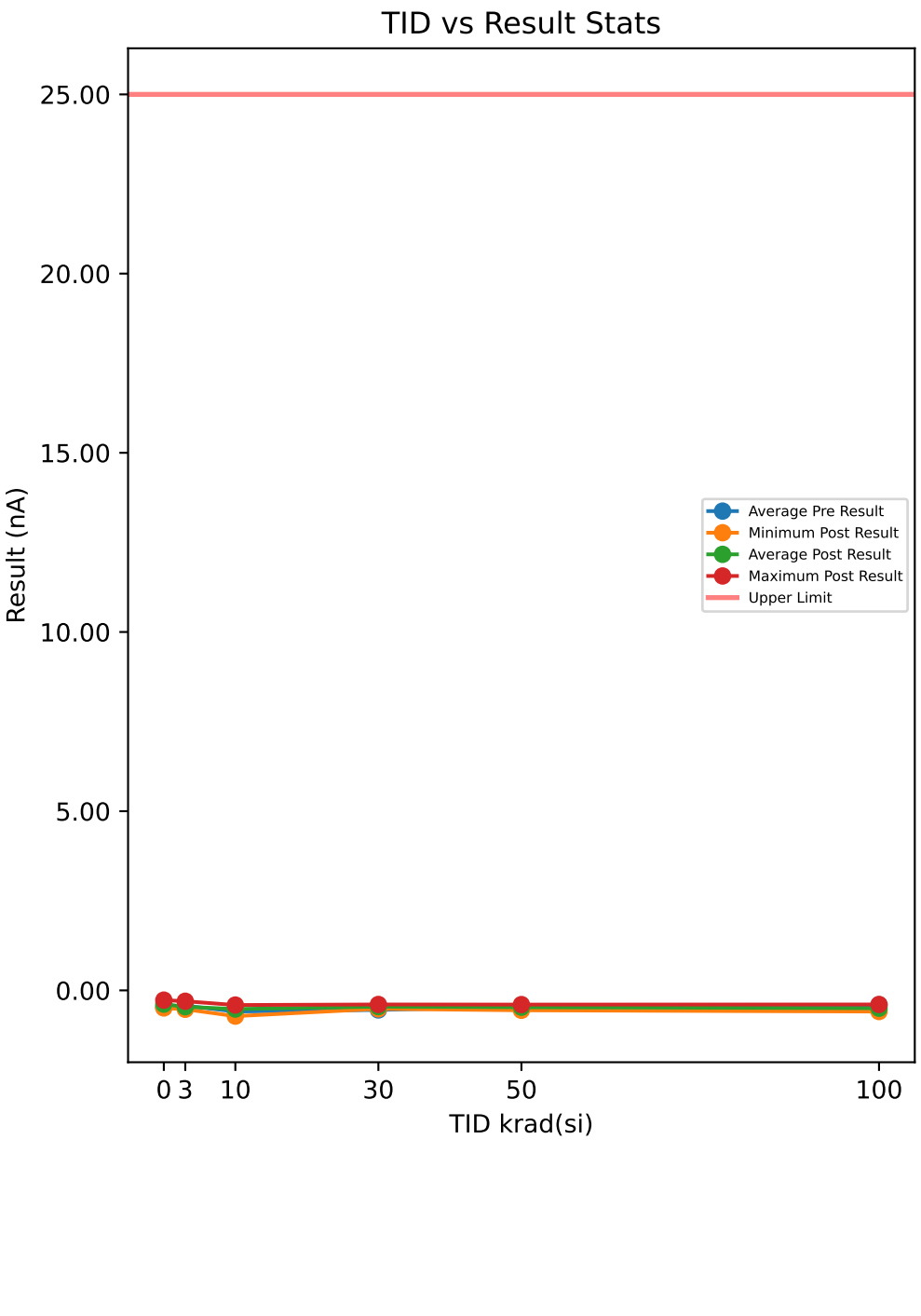
Test Results (Lower Limit = 95.0, Upper Limit = 210.0 (µA))

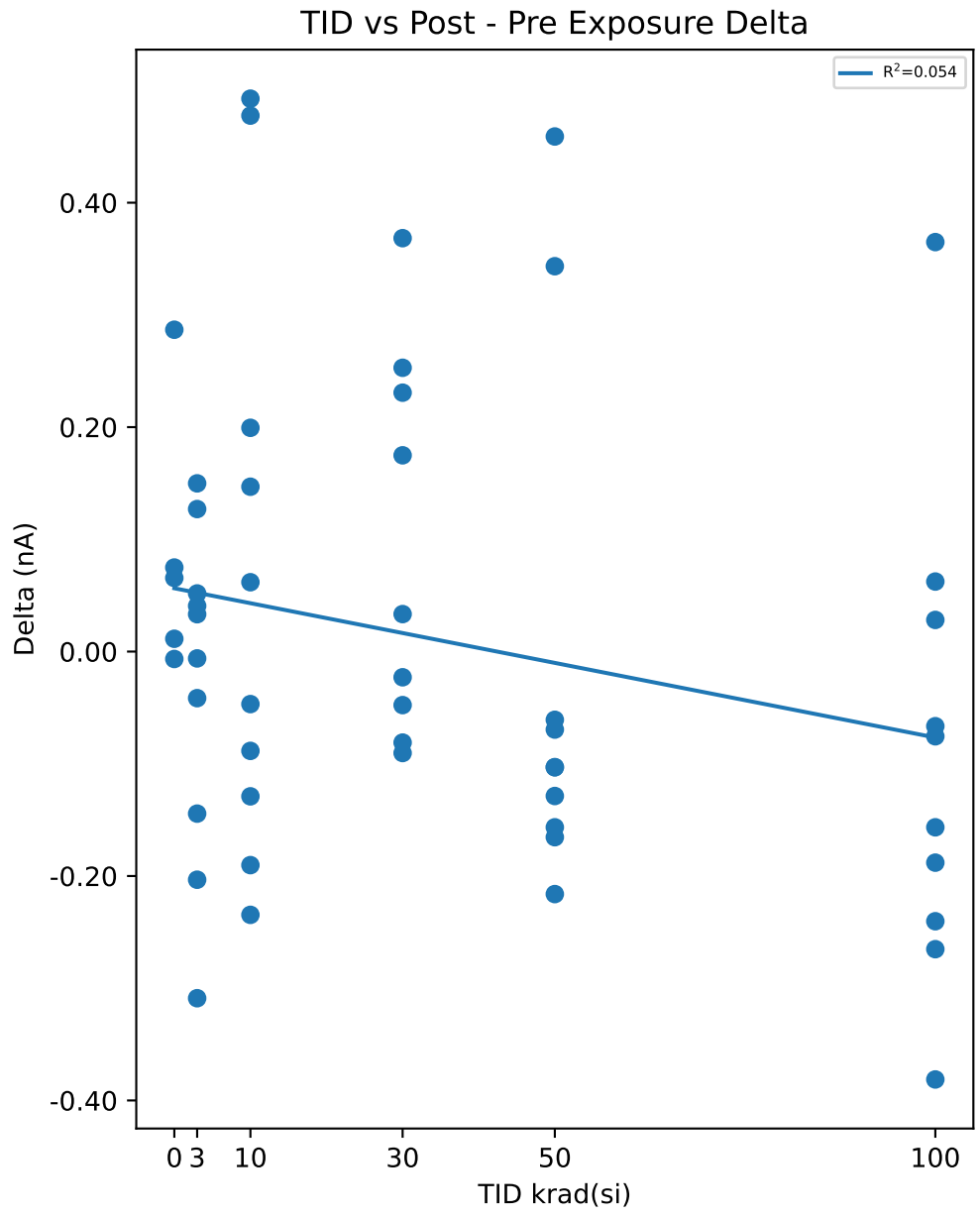
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	147.58	147.7	0.1207
411	100	Unbiased	139.62	141.86	2.239
444	30	Unbiased	138.19	138.75	0.5664
454	10	Unbiased	149.81	149.04	-0.7715
491	3	Unbiased	147.48	148.51	1.0241
500	100	Unbiased	140.82	142.03	1.2155
534	100	Biased	142.47	142.51	0.0339
558	0	Correlation	150.34	150.96	0.6145
563	100	Biased	148.77	151.01	2.2431
570	3	Unbiased	140.03	140.33	0.299
614	10	Unbiased	153.45	151.93	-1.5207
675	3	Biased	146.66	146.6	-0.0677
713	100	Unbiased	143.3	148.46	5.1613
744	50	Biased	145.47	149.51	4.0407
799	50	Biased	142.1	145.04	2.9394
842	30	Unbiased	143.08	144.53	1.4515
889	3	Unbiased	143.55	144.05	0.5021
901	3	Biased	138.63	138.47	-0.1572
930	50	Unbiased	149.93	152.99	3.0617
968	100	Unbiased	149.18	151.58	2.4055
976	100	Unbiased	148.58	149.81	1.2331
981	3	Biased	147.73	147.71	-0.0229
1003	10	Biased	143.99	144.83	0.8371
1039	3	Biased	144.77	144.59	-0.1857
1053	100	Biased	149.52	150.81	1.2833
1056	0	Correlation	144.58	144.77	0.1852
1072	10	Biased	148.58	148.5	-0.0822
1095	50	Unbiased	146.69	148.19	1.5001
1099	0	Correlation	139.88	140.36	0.4846
1113	3	Biased	139.65	140.94	1.2873
1142	10	Unbiased	152.93	153.75	0.8221
1154	10	Biased	144.99	145.78	0.788
1215	50	Unbiased	148.99	151.56	2.5696
1222	100	Biased	158.61	153.06	-5.5495
1229	50	Unbiased	149.52	154.57	5.0468
1255	3	Unbiased	148.83	148.9	0.0642
1331	30	Unbiased	140.05	140.17	0.1258
1359	30	Biased	143.7	147	3.3051
1375	30	Unbiased	144.61	143.59	-1.0227
1398	30	Biased	143.32	141.66	-1.6648
1411	50	Biased	138.56	142.83	4.2697
1465	10	Unbiased	148.52	149	0.4847
1474	50	Biased	135.19	137.67	2.4808
1504	50	Biased	148.11	147.08	-1.0329
1540	100	Biased	148.96	154.38	5.4214
1554	3	Unbiased	138.99	139.07	0.0788
1662	30	Biased	156.34	155.99	-0.3449
1679	10	Biased	142.85	143.1	0.2528
1697	10	Biased	135.07	135.93	0.8618
1703	30	Biased	148.01	151.01	3.0037
1704	10	Unbiased	151.72	153.67	1.9429
1736	30	Biased	148.89	147.71	-1.1761
1737	0	Correlation	141.26	141.49	0.2311
1748	0	Correlation	147.67	148.01	0.3407

Test Statistics (µA)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	139.88	144.74	150.34	4.3528	140.36	145.12	150.96	4.427	0.1852	0.37122	0.6145	0.17833
3	138.63	143.63	148.83	4.0072	138.47	143.92	148.9	3.9823	-0.1857	0.2822	1.2873	0.50834
10	135.07	147.19	153.45	5.6186	135.93	147.55	153.75	5.4331	-1.5207	0.3615	1.9429	0.96733
30	138.19	145.13	156.34	5.3836	138.75	145.6	155.99	5.4866	-1.6648	0.47156	3.3051	1.7926
50	135.19	145.21	149.93	5.0083	137.67	147.71	154.57	5.0041	-1.0329	2.4997	5.0468	1.8752
100	139.62	146.98	158.61	5.5988	141.86	148.55	154.38	4.7138	-5.5495	1.5687	5.4214	3.0313

Device Test: 19.16 CURRENT|EA//14/14/0/0/5/500kHz//@EA_IB





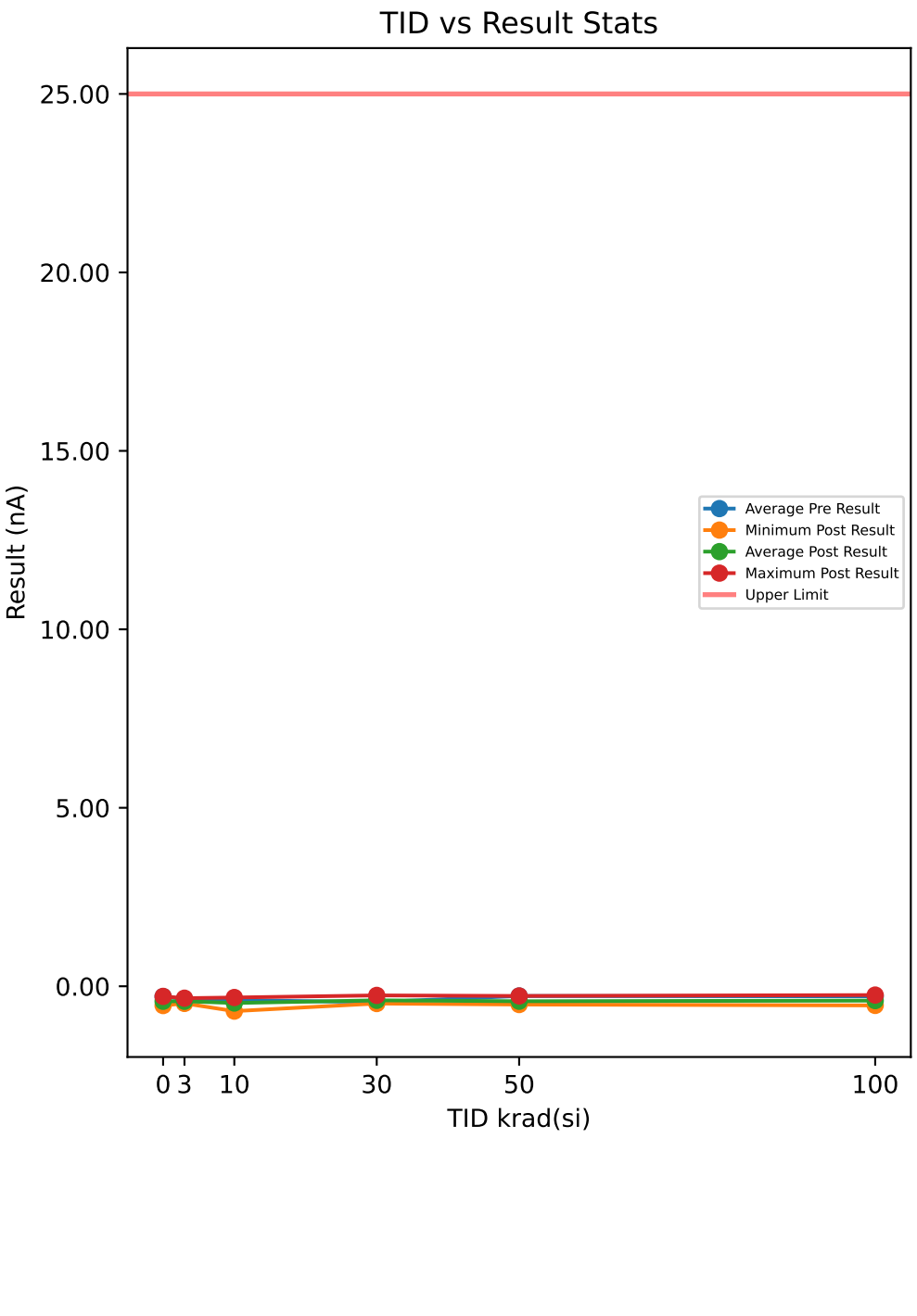
Test Results (Upper Limit = 25.0 (nA))

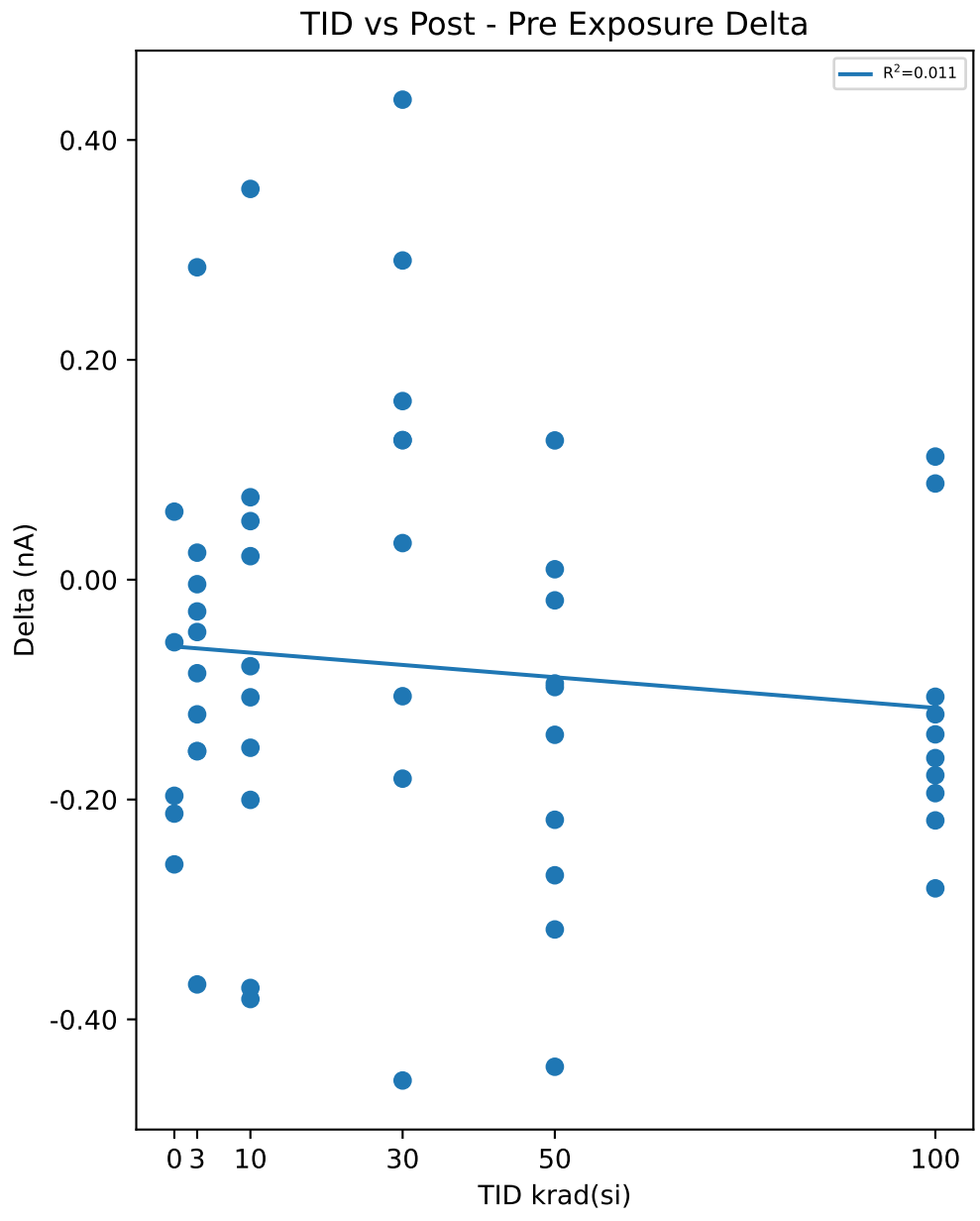
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	-0.2777	-0.4431	-0.1654
411	100	Unbiased	-0.2559	-0.5211	-0.2652
444	30	Unbiased	-0.6274	-0.4525	0.1749
454	10	Unbiased	-0.7803	-0.7185	0.0618
491	3	Unbiased	-0.1966	-0.3999	-0.2033
500	100	Unbiased	-0.5149	-0.5904	-0.0755
534	100	Biased	-0.771	-0.4061	0.3649
558	0	Correlation	-0.2652	-0.2718	-0.0066
563	100	Biased	-0.5119	-0.4837	0.0282
570	3	Unbiased	-0.548	-0.4962	0.0518
614	10	Unbiased	-0.4452	-0.5337	-0.0885
675	3	Biased	-0.1872	-0.4961	-0.3089
713	100	Unbiased	-0.3892	-0.5773	-0.1881
744	50	Biased	-0.3557	-0.5123	-0.1566
799	50	Biased	-0.2989	-0.4276	-0.1287
842	30	Unbiased	-0.4057	-0.4868	-0.0811
889	3	Unbiased	-0.4608	-0.4275	0.0333
901	3	Biased	-0.5088	-0.5149	-0.0061
930	50	Unbiased	-0.2933	-0.3964	-0.1031
968	100	Unbiased	-0.3745	-0.5311	-0.1566
976	100	Unbiased	-0.439	-0.5055	-0.0665
981	3	Biased	-0.383	-0.5274	-0.1444
1003	10	Biased	-0.2746	-0.5092	-0.2346
1039	3	Biased	-0.5774	-0.4275	0.1499
1053	100	Biased	-0.2496	-0.4899	-0.2403
1056	0	Correlation	-0.6804	-0.3936	0.2868
1072	10	Biased	-0.8864	-0.4088	0.4776
1095	50	Unbiased	-0.4203	-0.4811	-0.0608
1099	0	Correlation	-0.4057	-0.3308	0.0749
1113	3	Biased	-0.4234	-0.4649	-0.0415
1142	10	Unbiased	-0.9582	-0.4655	0.4927
1154	10	Biased	-0.721	-0.5741	0.1469
1215	50	Unbiased	-0.8896	-0.4306	0.459
1222	100	Biased	-0.4556	-0.3932	0.0624
1229	50	Unbiased	-0.3394	-0.5555	-0.2161
1255	3	Unbiased	-0.5493	-0.5086	0.0407
1331	30	Unbiased	-0.7678	-0.5149	0.2529
1359	30	Biased	-0.3652	-0.4556	-0.0904
1375	30	Unbiased	-0.8677	-0.4993	0.3684
1398	30	Biased	-0.6243	-0.3936	0.2307
1411	50	Biased	-0.3682	-0.4712	-0.103
1465	10	Unbiased	-0.3932	-0.44	-0.0468
1474	50	Biased	-0.4297	-0.4992	-0.0695
1504	50	Biased	-0.824	-0.4806	0.3434
1540	100	Biased	-0.0936	-0.4749	-0.3813
1554	3	Unbiased	-0.4297	-0.3027	0.127
1662	30	Biased	-0.4266	-0.3932	0.0334
1679	10	Biased	-0.6274	-0.428	0.1994
1697	10	Biased	-0.4764	-0.6054	-0.129
1703	30	Biased	-0.3767	-0.4244	-0.0477
1704	10	Unbiased	-0.3308	-0.5211	-0.1903
1736	30	Biased	-0.4452	-0.4681	-0.0229
1737	0	Correlation	-0.5013	-0.4899	0.0114
1748	0	Correlation	-0.5024	-0.4368	0.0656

Test Statistics (nA)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.6804	-0.471	-0.2652	0.15196	-0.4899	-0.38458	-0.2718	0.085896	-0.0066	0.08642	0.2868	0.11726
3	-0.5774	-0.42642	-0.1872	0.13848	-0.5274	-0.45657	-0.3027	0.069046	-0.3089	-0.03015	0.1499	0.14694
10	-0.9582	-0.58935	-0.2746	0.23978	-0.7185	-0.52043	-0.4088	0.094355	-0.2346	0.06892	0.4927	0.25958
30	-0.8677	-0.54518	-0.3652	0.18401	-0.5149	-0.45427	-0.3932	0.043676	-0.0904	0.090911	0.3684	0.16873
50	-0.8896	-0.44968	-0.2777	0.22093	-0.5555	-0.46976	-0.3964	0.046761	-0.2161	-0.02008	0.459	0.2284
100	-0.771	-0.40552	-0.0936	0.1843	-0.5904	-0.49732	-0.3932	0.063892	-0.3813	-0.0918	0.3649	0.21004

Device Test: 19.17 CURRENT|EA//12/12/0/0/5/100kHz//@EA_IB





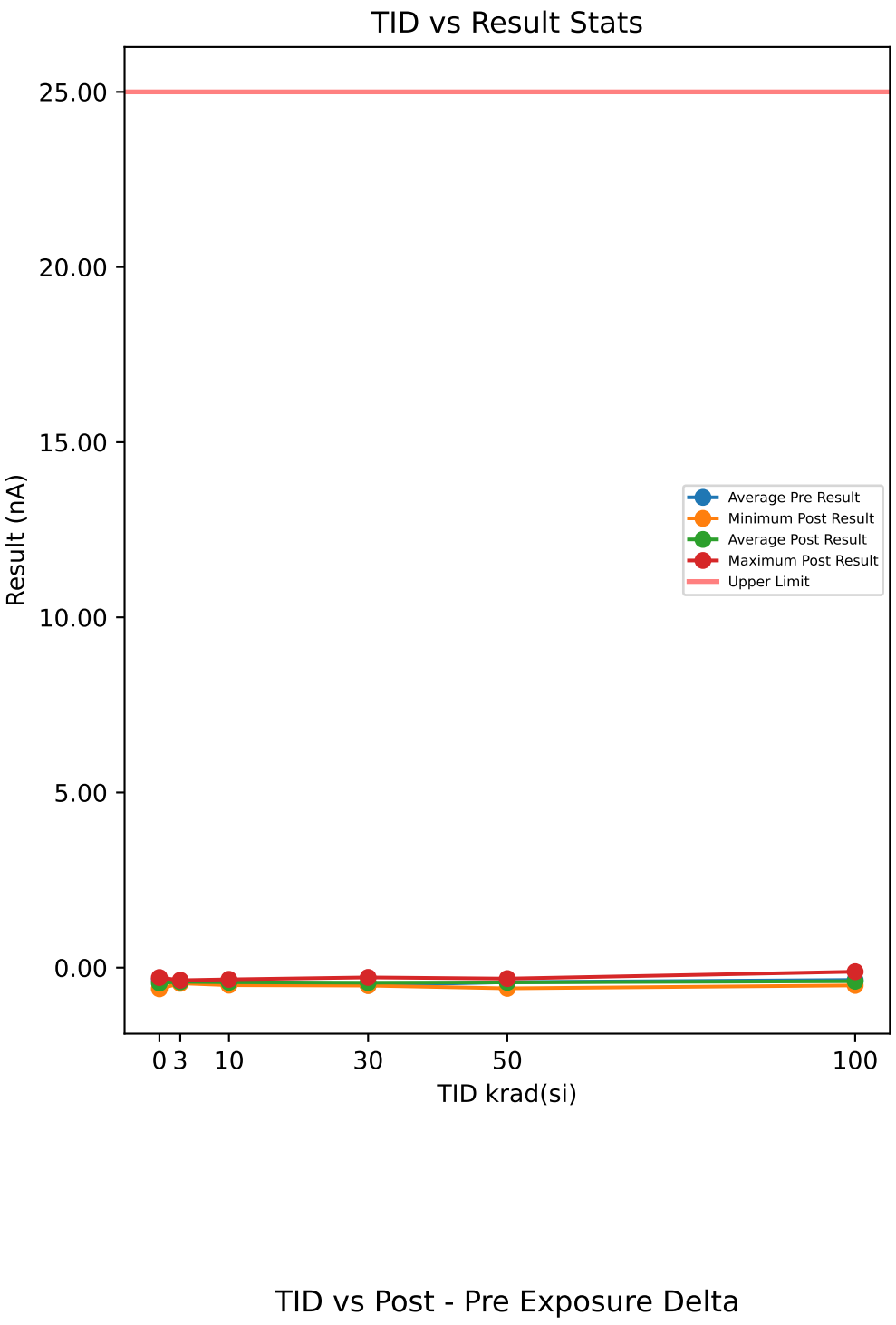
Test Results (Upper Limit = 25.0 (nA))

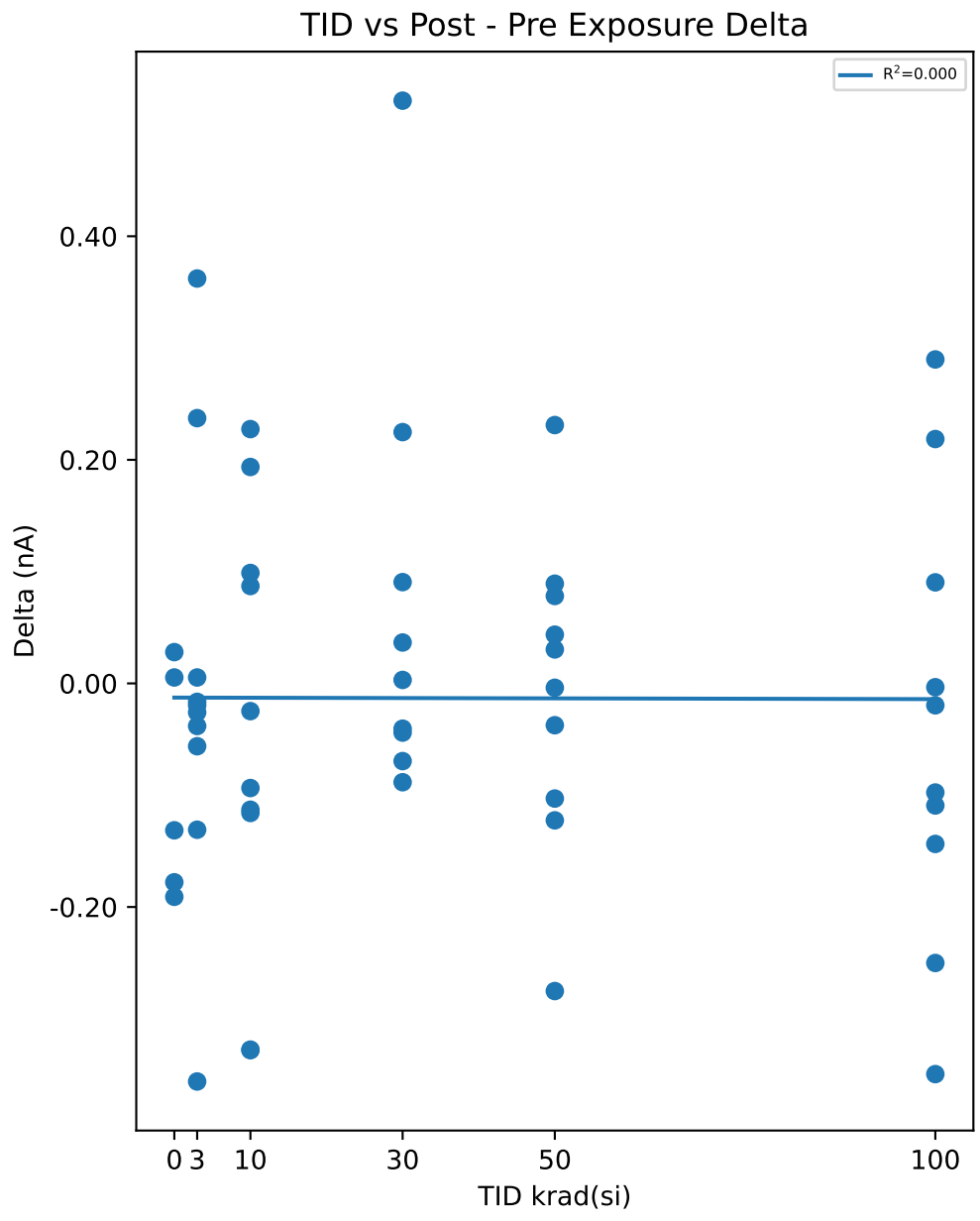
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	-0.0718	-0.39	-0.3182
411	100	Unbiased	-0.312	-0.4899	-0.1779
444	30	Unbiased	-0.5962	-0.4337	0.1625
454	10	Unbiased	-0.4963	-0.4749	0.0214
491	3	Unbiased	-0.3589	-0.3343	0.0246
500	100	Unbiased	-0.2184	-0.4374	-0.219
534	100	Biased	-0.3121	-0.4186	-0.1065
558	0	Correlation	-0.3277	-0.5405	-0.2128
563	100	Biased	-0.4932	-0.4057	0.0875
570	3	Unbiased	-0.4359	-0.44	-0.0041
614	10	Unbiased	-0.3487	-0.4557	-0.107
675	3	Biased	-0.0156	-0.3838	-0.3682
713	100	Unbiased	-0.3425	-0.5367	-0.1942
744	50	Biased	-0.2278	-0.4967	-0.2689
799	50	Biased	-0.3425	-0.4369	-0.0944
842	30	Unbiased	-0.0281	-0.4837	-0.4556
889	3	Unbiased	-0.3736	-0.4587	-0.0851
901	3	Biased	-0.2996	-0.4556	-0.156
930	50	Unbiased	-0.2933	-0.3121	-0.0188
968	100	Unbiased	-0.1061	-0.2468	-0.1407
976	100	Unbiased	-0.3861	-0.5086	-0.1225
981	3	Biased	-0.3581	-0.4806	-0.1225
1003	10	Biased	-0.3152	-0.6967	-0.3815
1039	3	Biased	-0.2528	-0.4088	-0.156
1053	100	Biased	-0.103	-0.3838	-0.2808
1056	0	Correlation	-0.5899	-0.528	0.0619
1072	10	Biased	-0.3902	-0.3152	0.075
1095	50	Unbiased	-0.3985	-0.2718	0.1267
1099	0	Correlation	-0.025	-0.284	-0.259
1113	3	Biased	-0.3736	-0.4212	-0.0476
1142	10	Unbiased	-0.4339	-0.6342	-0.2003
1154	10	Biased	-0.5837	-0.5304	0.0533
1215	50	Unbiased	-0.4713	-0.4618	0.0095
1222	100	Biased	-0.1623	-0.3246	-0.1623
1229	50	Unbiased	-0.4141	-0.5118	-0.0977
1255	3	Unbiased	-0.7179	-0.4337	0.2842
1331	30	Unbiased	-0.2684	-0.4494	-0.181
1359	30	Biased	-0.7304	-0.44	0.2904
1375	30	Unbiased	-0.3153	-0.4213	-0.106
1398	30	Biased	-0.6929	-0.2562	0.4367
1411	50	Biased	0.0125	-0.4306	-0.4431
1465	10	Unbiased	0.0094	-0.362	-0.3714
1474	50	Biased	-0.3145	-0.4556	-0.1411
1504	50	Biased	-0.2122	-0.4306	-0.2184
1540	100	Biased	-0.3838	-0.2718	0.112
1554	3	Unbiased	-0.3643	-0.3932	-0.0289
1662	30	Biased	-0.4639	-0.4306	0.0333
1679	10	Biased	-0.7554	-0.3999	0.3555
1697	10	Biased	-0.3207	-0.3994	-0.0787
1703	30	Biased	-0.4328	-0.3058	0.127
1704	10	Unbiased	-0.2715	-0.4244	-0.1529
1736	30	Biased	-0.4577	-0.3308	0.1269
1737	0	Correlation	-0.3581	-0.415	-0.0569
1748	0	Correlation	-0.1404	-0.337	-0.1966

Test Statistics (nA)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.5899	-0.28822	-0.025	0.21713	-0.5405	-0.4209	-0.284	0.11357	-0.259	-0.13268	0.0619	0.13235
3	-0.7179	-0.35503	-0.0156	0.17248	-0.4806	-0.42099	-0.3343	0.042837	-0.3682	-0.06596	0.2842	0.16582
10	-0.7554	-0.39062	0.0094	0.20274	-0.6967	-0.46928	-0.3152	0.12011	-0.3815	-0.07866	0.3555	0.22062
30	-0.7304	-0.44286	-0.0281	0.22029	-0.4837	-0.39461	-0.2562	0.077178	-0.4556	0.048244	0.4367	0.26585
50	-0.4713	-0.27335	0.0125	0.15264	-0.5118	-0.41979	-0.2718	0.07626	-0.4431	-0.14644	0.1267	0.16932
100	-0.4932	-0.28195	-0.103	0.13022	-0.5367	-0.40239	-0.2468	0.09783	-0.2808	-0.12044	0.112	0.1264

Device Test: 19.18 CURRENT|EA//14/14/0/0/5/100kHz//@EA_IB





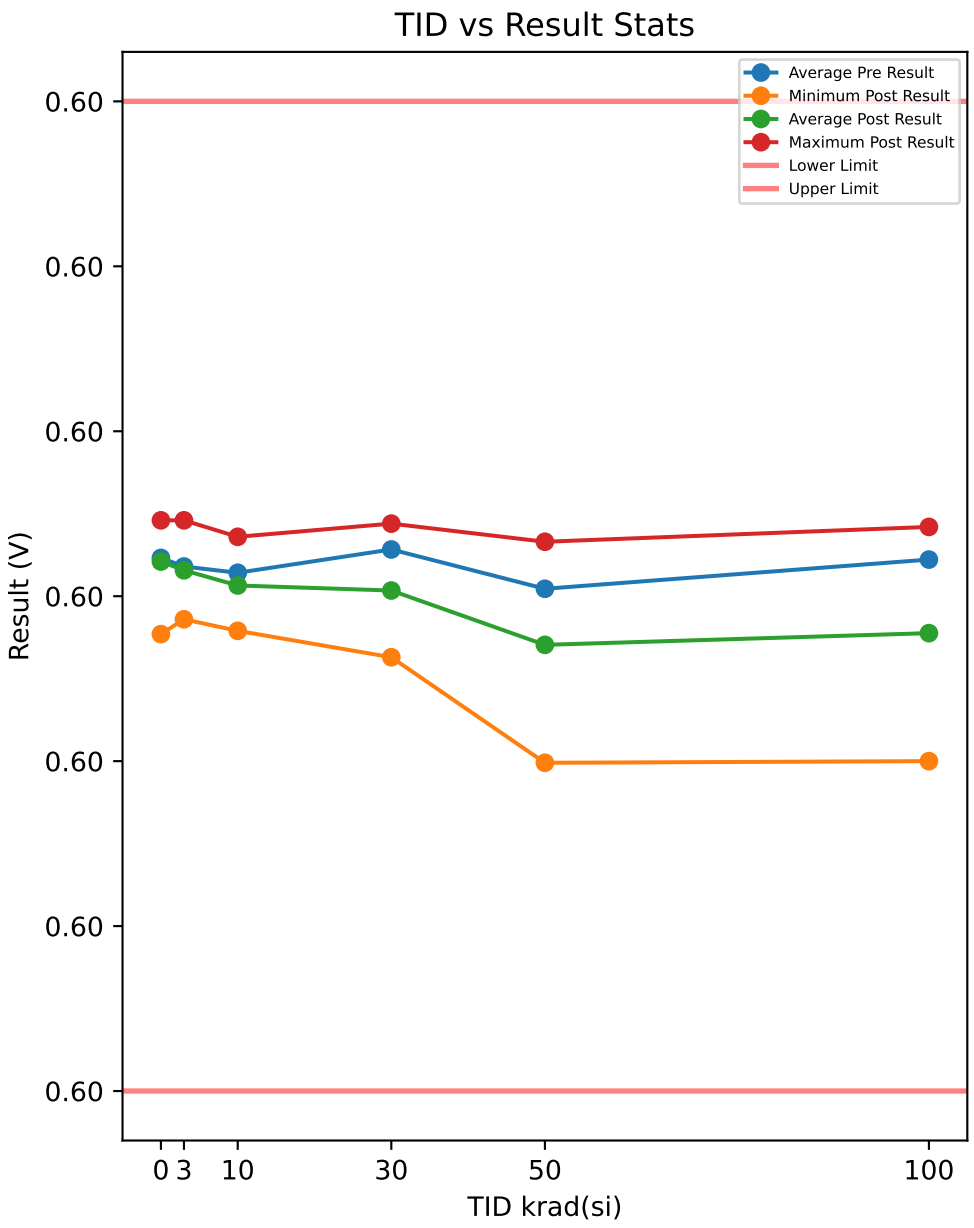
Test Results (Upper Limit = 25.0 (nA))

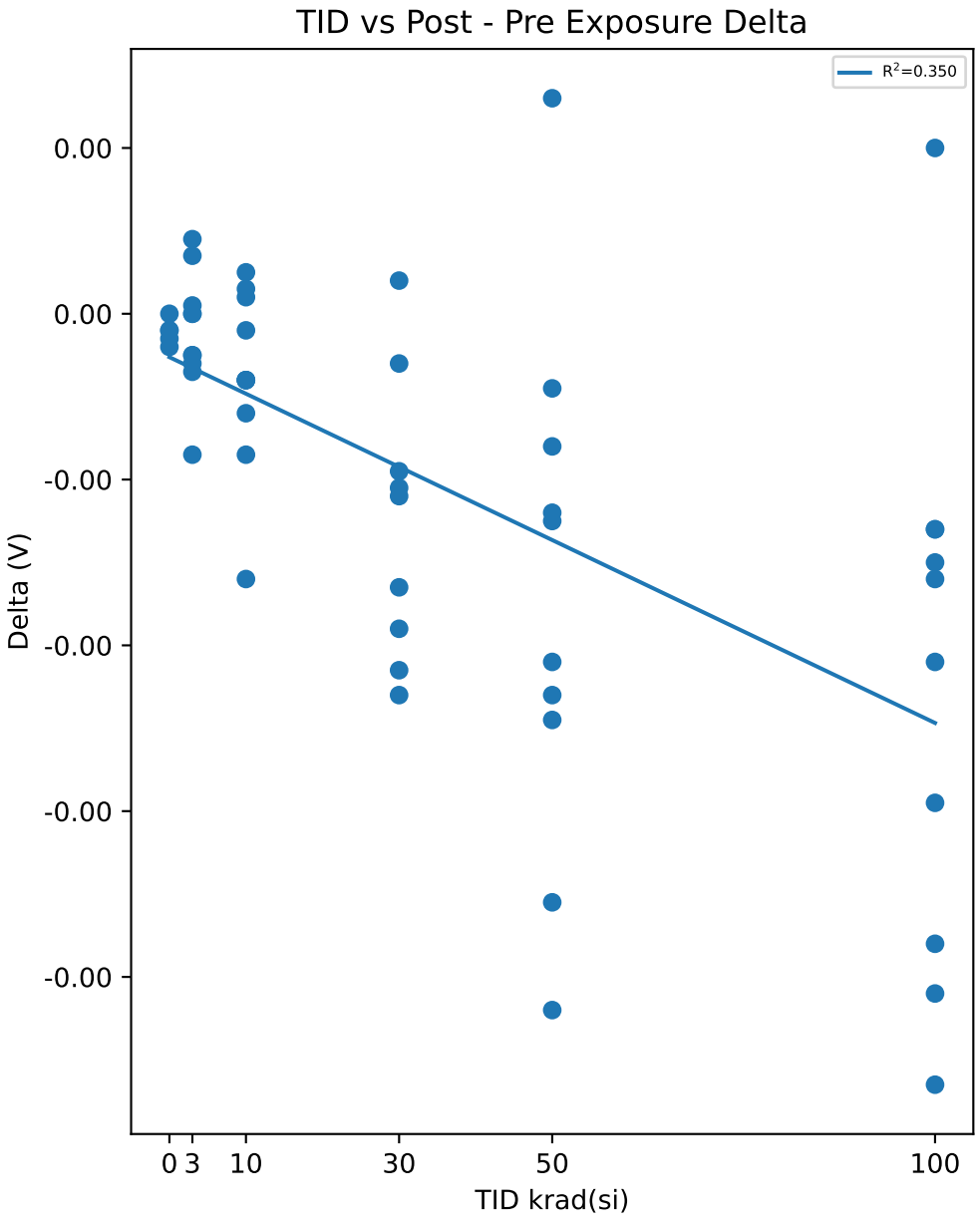
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	-0.3557	-0.4587	-0.103
411	100	Unbiased	-0.156	-0.5055	-0.3495
444	30	Unbiased	-0.5618	-0.4712	0.0906
454	10	Unbiased	-0.4682	-0.3811	0.0871
491	3	Unbiased	-0.025	-0.3811	-0.3561
500	100	Unbiased	-0.206	-0.1156	0.0904
534	100	Biased	-0.7959	-0.5061	0.2898
558	0	Correlation	-0.1498	-0.2812	-0.1314
563	100	Biased	-0.5681	-0.3495	0.2186
570	3	Unbiased	-0.4141	-0.4088	0.0053
614	10	Unbiased	-0.4608	-0.362	0.0988
675	3	Biased	-0.337	-0.3932	-0.0562
713	100	Unbiased	-0.4017	-0.4993	-0.0976
744	50	Biased	-0.3152	-0.5904	-0.2752
799	50	Biased	-0.3332	-0.4557	-0.1225
842	30	Unbiased	-0.5149	-0.5118	0.0031
889	3	Unbiased	-0.3207	-0.3588	-0.0381
901	3	Biased	-0.7304	-0.3682	0.3622
930	50	Unbiased	-0.3557	-0.3121	0.0436
968	100	Unbiased	-0.1997	-0.2031	-0.0034
976	100	Unbiased	-0.4048	-0.4244	-0.0196
981	3	Biased	-0.3861	-0.4057	-0.0196
1003	10	Biased	-0.0624	-0.3905	-0.3281
1039	3	Biased	-0.6773	-0.44	0.2373
1053	100	Biased	-0.3713	-0.4805	-0.1092
1056	0	Correlation	-0.412	-0.6029	-0.1909
1072	10	Biased	-0.5868	-0.3932	0.1936
1095	50	Unbiased	-0.4141	-0.3249	0.0892
1099	0	Correlation	-0.4712	-0.4432	0.028
1113	3	Biased	-0.4203	-0.4462	-0.0259
1142	10	Unbiased	-0.5618	-0.3343	0.2275
1154	10	Biased	-0.4245	-0.4493	-0.0248
1215	50	Unbiased	-0.5899	-0.5117	0.0782
1222	100	Biased	-0.284	-0.4276	-0.1436
1229	50	Unbiased	-0.3612	-0.3308	0.0304
1255	3	Unbiased	-0.3153	-0.4462	-0.1309
1331	30	Unbiased	-0.7991	-0.2778	0.5213
1359	30	Biased	-0.3714	-0.4119	-0.0405
1375	30	Unbiased	-0.721	-0.4962	0.2248
1398	30	Biased	-0.3184	-0.3624	-0.044
1411	50	Biased	-0.3651	-0.4025	-0.0374
1465	10	Unbiased	-0.3464	-0.44	-0.0936
1474	50	Biased	-0.3612	-0.3651	-0.0039
1504	50	Biased	-0.6836	-0.4525	0.2311
1540	100	Biased	-0.1123	-0.3624	-0.2501
1554	3	Unbiased	-0.3736	-0.3901	-0.0165
1662	30	Biased	-0.4079	-0.3713	0.0366
1679	10	Biased	-0.3839	-0.4998	-0.1159
1697	10	Biased	-0.3363	-0.4493	-0.113
1703	30	Biased	-0.3705	-0.44	-0.0695
1704	10	Unbiased	-0.1404	-0.468	-0.3276
1736	30	Biased	-0.4234	-0.5118	-0.0884
1737	0	Correlation	-0.4484	-0.4431	0.0053
1748	0	Correlation	-0.2309	-0.4088	-0.1779

Test Statistics (nA)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.4712	-0.34246	-0.1498	0.14335	-0.6029	-0.43584	-0.2812	0.11474	-0.1909	-0.09338	0.028	0.10316
3	-0.7304	-0.39998	-0.025	0.19596	-0.4462	-0.40383	-0.3588	0.031697	-0.3561	-0.00385	0.3622	0.19358
10	-0.5868	-0.37715	-0.0624	0.16778	-0.4998	-0.41675	-0.3343	0.052168	-0.3281	-0.0396	0.2275	0.19478
30	-0.7991	-0.49871	-0.3184	0.16694	-0.5118	-0.42827	-0.2778	0.079877	-0.0884	0.070444	0.5213	0.19475
50	-0.6836	-0.41349	-0.3152	0.12233	-0.5904	-0.42044	-0.3121	0.090206	-0.2752	-0.00695	0.2311	0.13848
100	-0.7959	-0.34998	-0.1123	0.20932	-0.5061	-0.3874	-0.1156	0.13421	-0.3495	-0.03742	0.2898	0.19808

Device Test: 19.19 VOLTAGE|VREF//12/12/0/0/5/100kHz//@VREF_25C





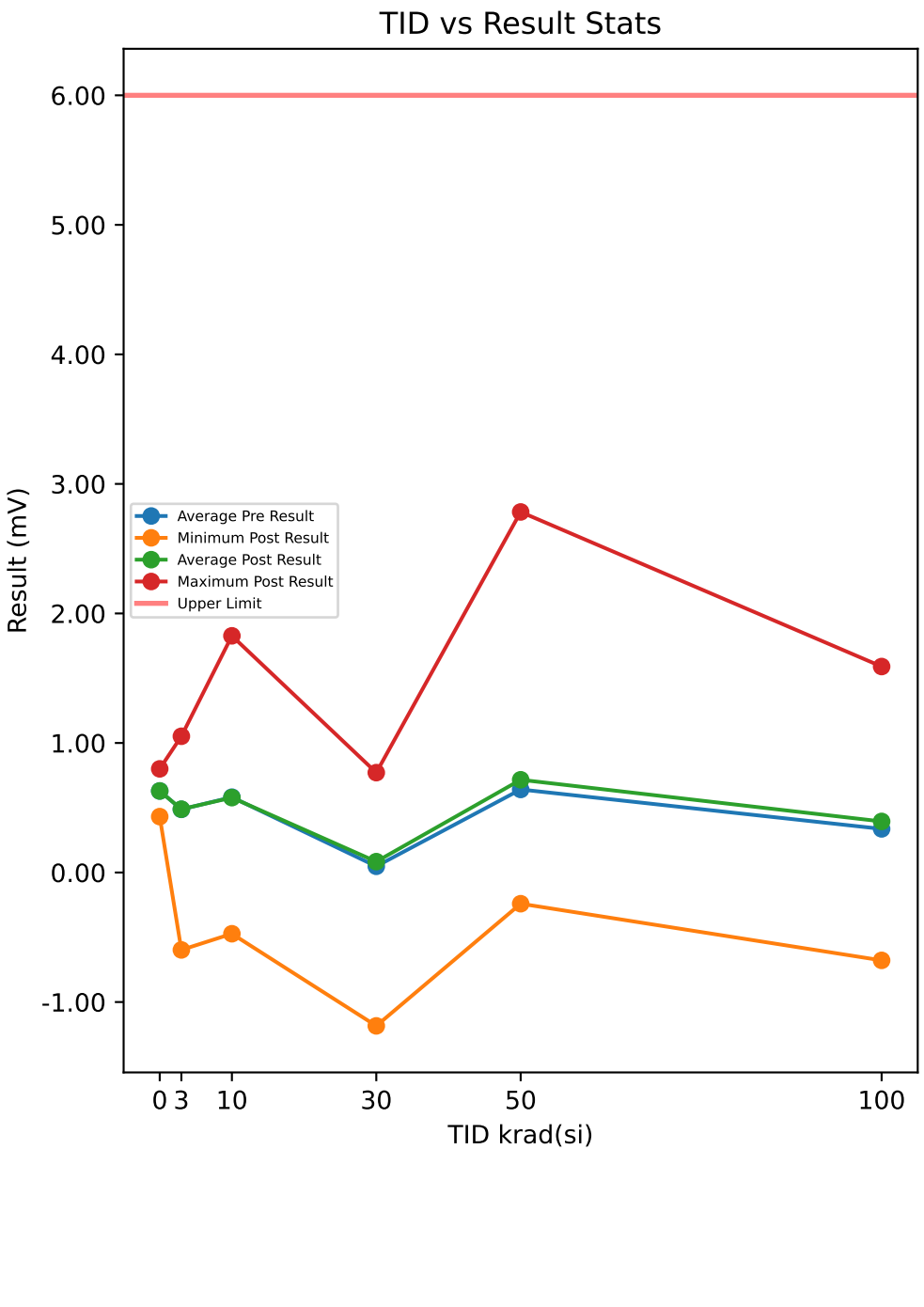
Test Results (Lower Limit = 0.597, Upper Limit = 0.603 (V))

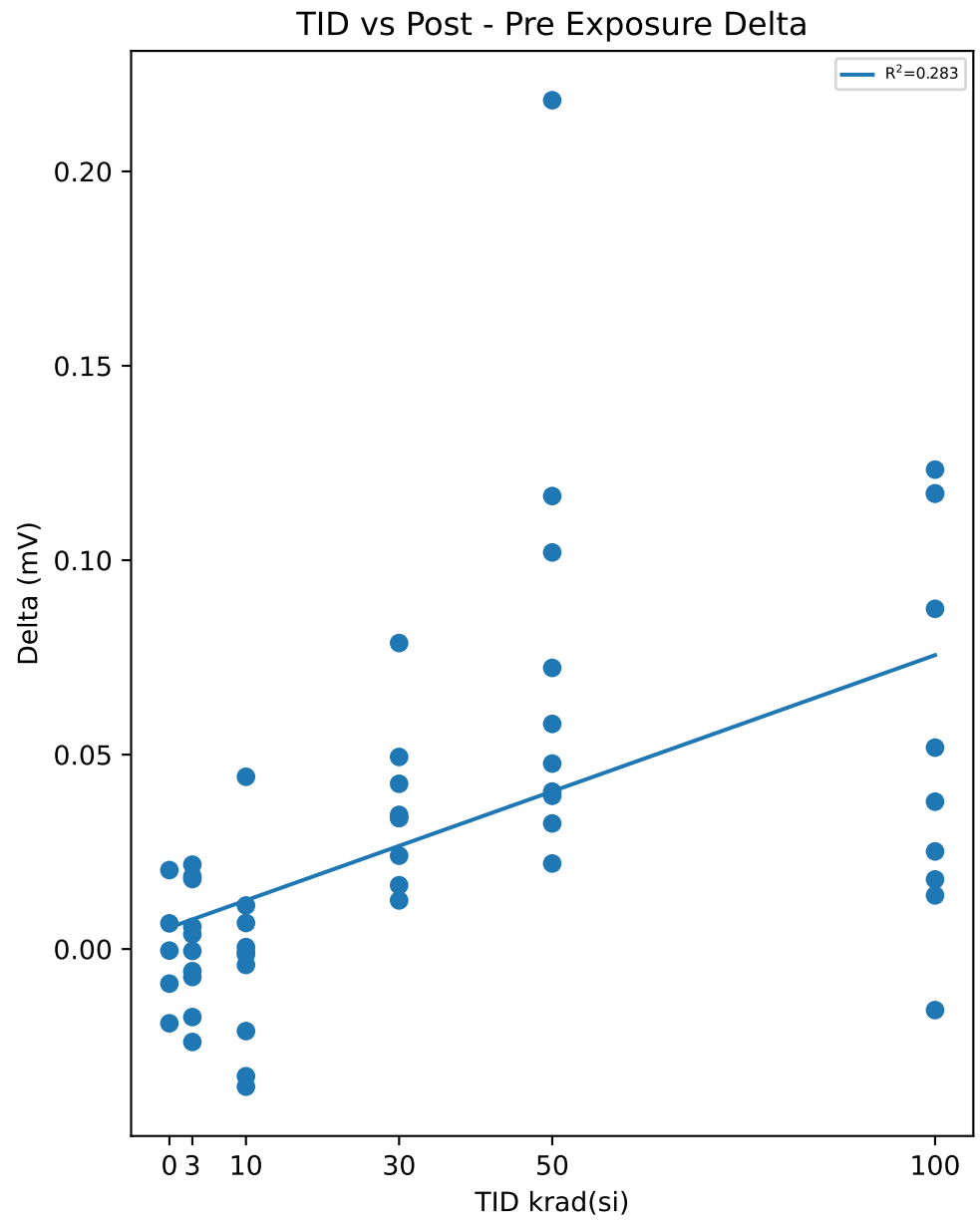
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	0.60005	0.5998	-0.00025
411	100	Unbiased	0.60039	0.59963	-0.00076
444	30	Unbiased	0.60047	0.60041	-6e-05
454	10	Unbiased	0.60027	0.6001	-0.00017
491	3	Unbiased	0.60003	0.60004	1e-05
500	100	Unbiased	0.60027	0.60001	-0.00026
534	100	Biased	0.60008	0.59966	-0.00042
558	0	Correlation	0.60034	0.60031	-3e-05
563	100	Biased	0.60038	0.59979	-0.00059
570	3	Unbiased	0.60034	0.60041	7e-05
614	10	Unbiased	0.59993	0.59981	-0.00012
675	3	Biased	0.60037	0.60046	9e-05
713	100	Unbiased	0.60045	0.60013	-0.00032
744	50	Biased	0.59983	0.59967	-0.00016
799	50	Biased	0.59997	0.59988	-9e-05
842	30	Unbiased	0.60033	0.59995	-0.00038
889	3	Unbiased	0.59996	0.59989	-7e-05
901	3	Biased	0.60034	0.60017	-0.00017
930	50	Unbiased	0.60038	0.59996	-0.00042
968	100	Unbiased	0.60022	0.60042	0.0002
976	100	Unbiased	0.60014	0.59984	-0.0003
981	3	Biased	0.60036	0.60036	0
1003	10	Biased	0.60044	0.60036	-8e-05
1039	3	Biased	0.60032	0.60027	-5e-05
1053	100	Biased	0.60014	0.59921	-0.00093
1056	0	Correlation	0.60045	0.60041	-4e-05
1072	10	Biased	0.60005	0.60003	-2e-05
1095	50	Unbiased	0.59972	0.59926	-0.00046
1099	0	Correlation	0.60048	0.60046	-2e-05
1113	3	Biased	0.60014	0.60014	0
1142	10	Unbiased	0.60019	0.59987	-0.00032
1154	10	Biased	0.59977	0.59979	2e-05
1215	50	Unbiased	0.60007	0.60033	0.00026
1222	100	Biased	0.59982	0.599	-0.00082
1229	50	Unbiased	0.6004	0.60016	-0.00024
1255	3	Unbiased	0.60003	0.59997	-6e-05
1331	30	Unbiased	0.6001	0.59964	-0.00046
1359	30	Biased	0.60006	0.59963	-0.00043
1375	30	Unbiased	0.60041	0.60019	-0.00022
1398	30	Biased	0.60034	0.60001	-0.00033
1411	50	Biased	0.59992	0.59921	-0.00071
1465	10	Unbiased	0.60041	0.60033	-8e-05
1474	50	Biased	0.59983	0.59899	-0.00084
1504	50	Biased	0.60028	0.59979	-0.00049
1540	100	Biased	0.60033	0.60007	-0.00026
1554	3	Unbiased	0.59991	0.59986	-5e-05
1662	30	Biased	0.60018	0.60022	4e-05
1679	10	Biased	0.59987	0.5999	3e-05
1697	10	Biased	0.60008	0.60013	5e-05
1703	30	Biased	0.60063	0.60044	-0.00019
1704	10	Unbiased	0.60041	0.60033	-8e-05
1736	30	Biased	0.60003	0.59982	-0.00021
1737	0	Correlation	0.6001	0.6001	0
1748	0	Correlation	0.59979	0.59977	-2e-05

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.59979	0.60023	0.60048	0.00028874	0.59977	0.60021	0.60046	0.00028205	-4e-05	-2.2e-05	0	1.4832e-05
3	0.59991	0.60018	0.60037	0.00018475	0.59986	0.60016	0.60046	0.00021562	-0.00017	-2.3e-05	9e-05	7.4692e-05
10	0.59977	0.60014	0.60044	0.00024055	0.59979	0.60007	0.60036	0.00022112	-0.00032	-7.7e-05	5e-05	0.00011046
30	0.60003	0.60028	0.60063	0.00020457	0.59963	0.60003	0.60044	0.00030353	-0.00046	-0.00024889	4e-05	0.00016811
50	0.59972	0.60004	0.6004	0.00023885	0.59899	0.5997	0.60033	0.00043012	-0.00084	-0.00034	0.00026	0.00031679
100	0.59982	0.60022	0.60045	0.00018689	0.599	0.59978	0.60042	0.00042724	-0.00093	-0.000446	0.0002	0.00033629

Device Test: 19.21 VOLTAGE|OFFSET//12/12/0/0/5/100kHz//@EA_OS





Test Results (Upper Limit = 6.0 (mV))

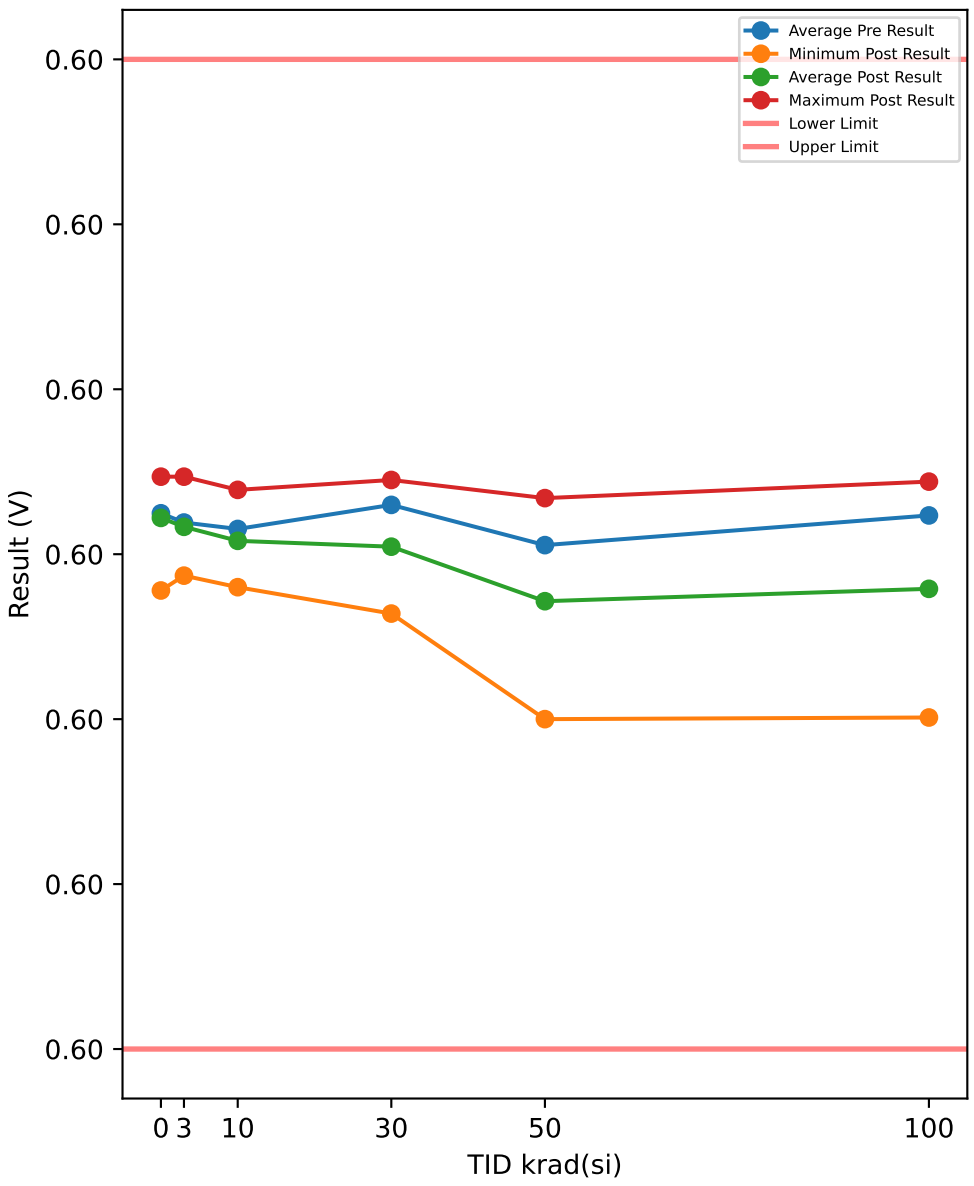
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	0.1568	0.2147	0.0579
411	100	Unbiased	0.5465	0.5844	0.0379
444	30	Unbiased	-1.2178	-1.1841	0.0337
454	10	Unbiased	0.093	0.0719	-0.0211
491	3	Unbiased	-0.5614	-0.5853	-0.0239
500	100	Unbiased	1.4729	1.5901	0.1172
534	100	Biased	0.6592	0.7763	0.1171
558	0	Correlation	0.7594	0.759	-0.0004
563	100	Biased	-0.0443	0.0075	0.0518
570	3	Unbiased	0.9128	0.9185	0.0057
614	10	Unbiased	0.7966	0.7952	-0.0014
675	3	Biased	0.9946	0.9874	-0.0072
713	100	Unbiased	0.0747	0.198	0.1233
744	50	Biased	1.1066	1.1389	0.0323
799	50	Biased	0.8158	0.8563	0.0405
842	30	Unbiased	0.596	0.62	0.024
889	3	Unbiased	0.9511	0.9549	0.0038
901	3	Biased	1.0331	1.0518	0.0187
930	50	Unbiased	0.3094	0.5277	0.2183
968	100	Unbiased	0.0849	0.1724	0.0875
976	100	Unbiased	0.825	0.8429	0.0179
981	3	Biased	-0.6157	-0.5977	0.018
1003	10	Biased	-0.2112	-0.2439	-0.0327
1039	3	Biased	0.2683	0.2678	-0.0005
1053	100	Biased	0.6327	0.6465	0.0138
1056	0	Correlation	0.5064	0.513	0.0066
1072	10	Biased	0.6199	0.6311	0.0112
1095	50	Unbiased	0.1191	0.1411	0.022
1099	0	Correlation	0.6524	0.6435	-0.0089
1113	3	Biased	0.9759	0.9584	-0.0175
1142	10	Unbiased	0.6028	0.6095	0.0067
1154	10	Biased	1.4363	1.4009	-0.0354
1215	50	Unbiased	1.0067	1.1232	0.1165
1222	100	Biased	-0.2215	-0.1964	0.0251
1229	50	Unbiased	0.6636	0.7656	0.102
1255	3	Unbiased	0.5232	0.5175	-0.0057
1331	30	Unbiased	0.0967	0.1754	0.0787
1359	30	Biased	0.2898	0.3023	0.0125
1375	30	Unbiased	0.7285	0.771	0.0425
1398	30	Biased	0.3533	0.3697	0.0164
1411	50	Biased	-0.2803	-0.2409	0.0394
1465	10	Unbiased	1.7829	1.8272	0.0443
1474	50	Biased	-0.1988	-0.1511	0.0477
1504	50	Biased	2.7113	2.7836	0.0723
1540	100	Biased	-0.6626	-0.6783	-0.0157
1554	3	Unbiased	0.3927	0.4144	0.0217
1662	30	Biased	-0.1556	-0.1219	0.0337
1679	10	Biased	-0.4687	-0.4728	-0.0041
1697	10	Biased	0.3854	0.3859	0.0005
1703	30	Biased	-0.0772	-0.0278	0.0494
1704	10	Unbiased	0.7781	0.7773	-0.0008
1736	30	Biased	-0.1834	-0.1489	0.0345
1737	0	Correlation	0.4112	0.4315	0.0203
1748	0	Correlation	0.8192	0.8001	-0.0191

Test Statistics (mV)

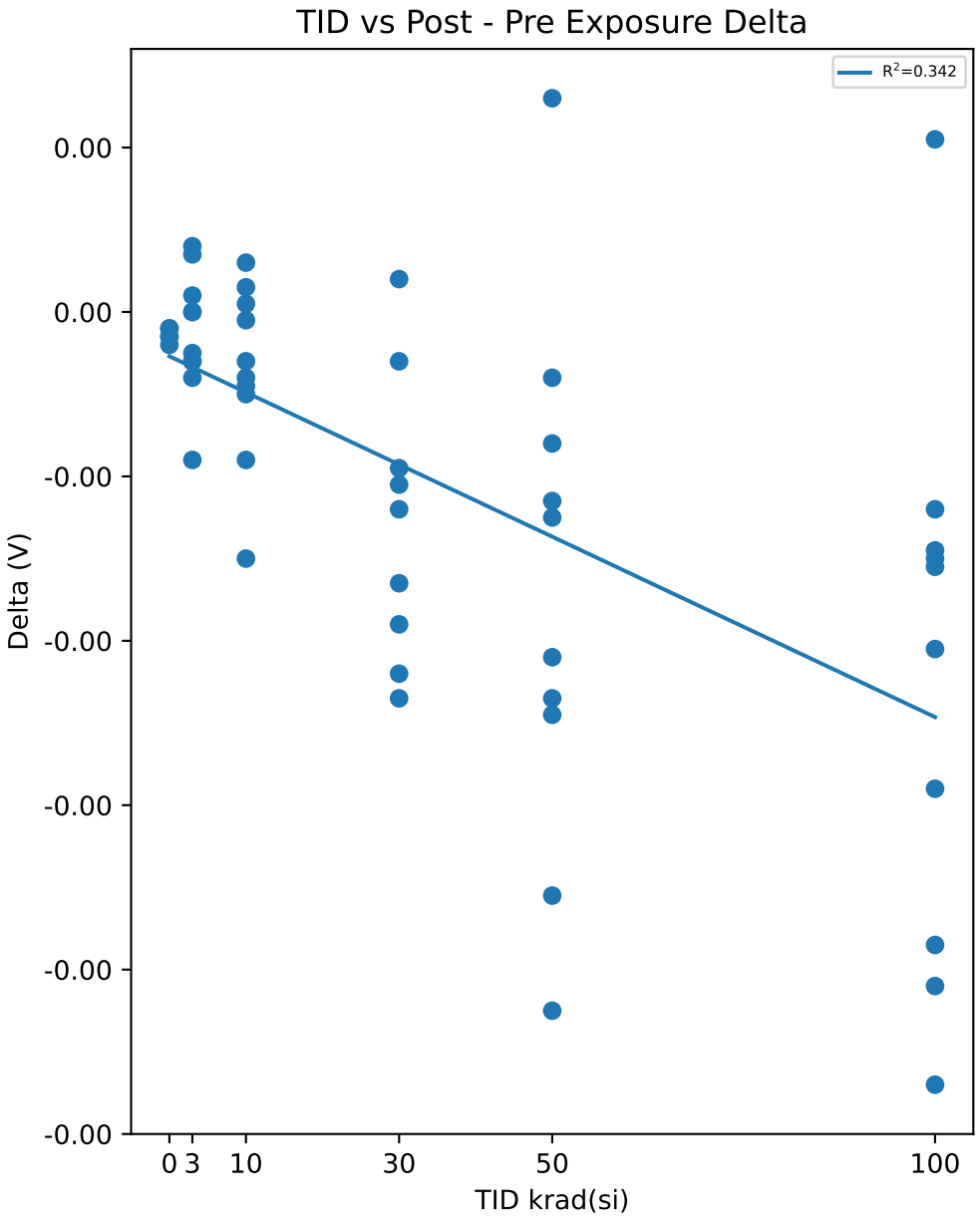
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.4112	0.62972	0.8192	0.17044	0.4315	0.62942	0.8001	0.1572	-0.0191	-0.0003	0.0203	0.014995
3	-0.6157	0.48746	1.0331	0.62935	-0.5977	0.48877	1.0518	0.63046	-0.0239	0.00131	0.0217	0.015407
10	-0.4687	0.58151	1.7829	0.68874	-0.4728	0.57823	1.8272	0.69929	-0.0354	-0.00328	0.0443	0.023124
30	-1.2178	0.047811	0.7285	0.57341	-1.1841	0.083967	0.771	0.57163	0.0125	0.036156	0.0787	0.019806
50	-0.2803	0.64102	2.7113	0.87169	-0.2409	0.71591	2.7836	0.87728	0.022	0.07489	0.2183	0.058804
100	-0.6626	0.33675	1.4729	0.61032	-0.6783	0.39434	1.5901	0.63365	-0.0157	0.05759	0.1233	0.050165

Device Test: 19.22 VOLTAGE|VREF//14/14/0/0/5/100kHz//@VREF_25C

TID vs Result Stats



TID vs Post - Pre Exposure Delta



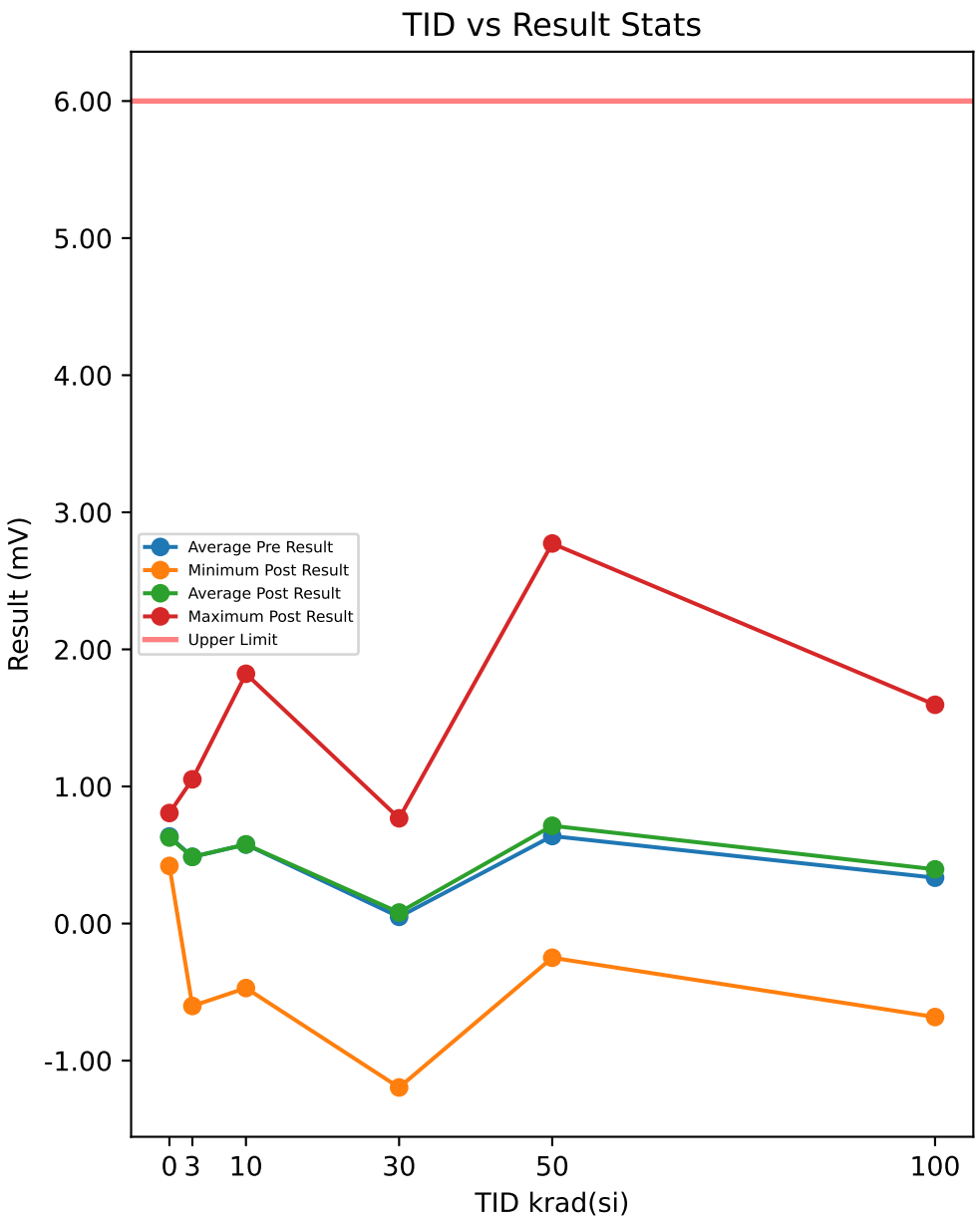
Test Results (Lower Limit = 0.597, Upper Limit = 0.603 (V))

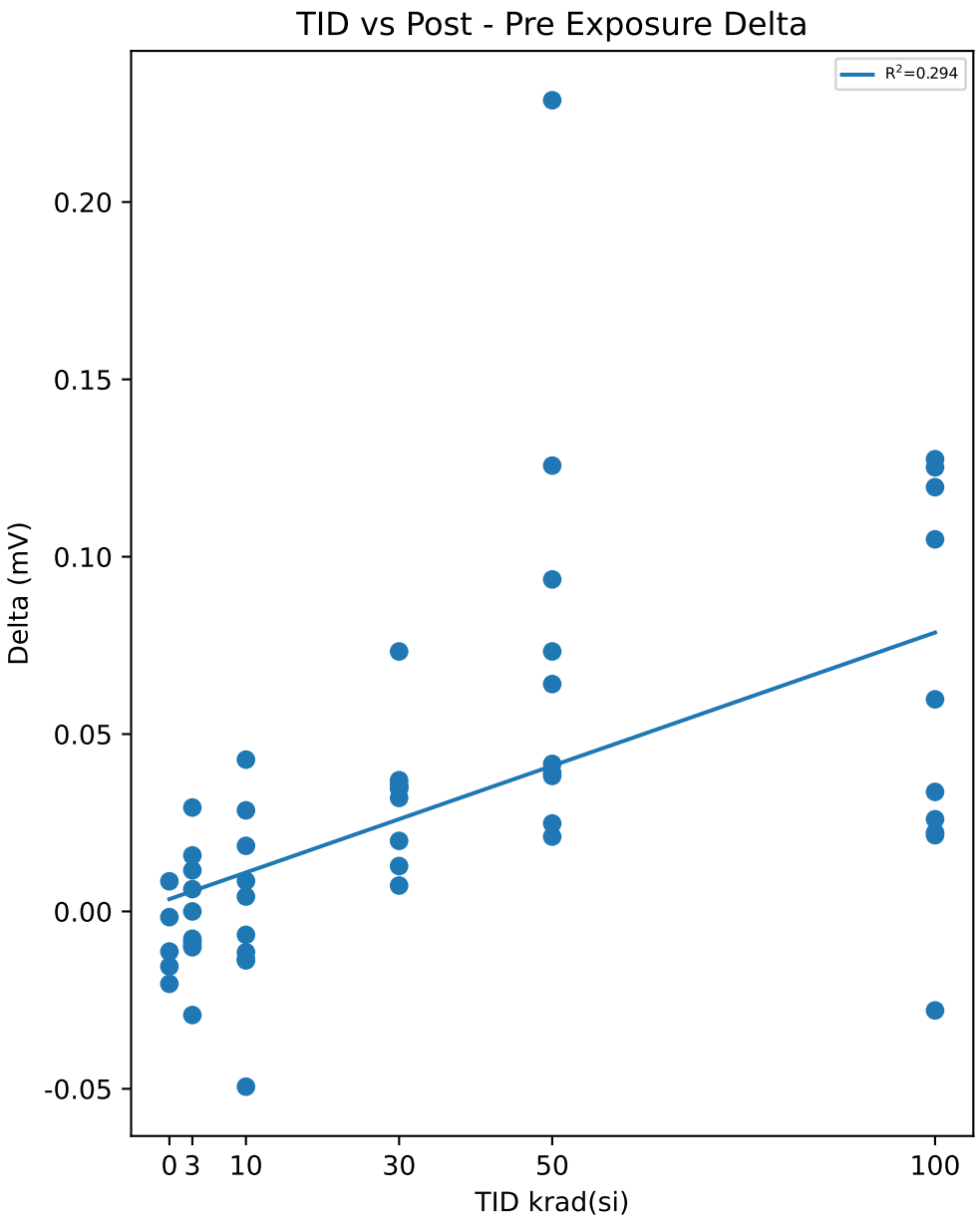
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	0.60006	0.59983	-0.00023
411	100	Unbiased	0.60041	0.59964	-0.00077
444	30	Unbiased	0.60048	0.60042	-6e-05
454	10	Unbiased	0.60029	0.60011	-0.00018
491	3	Unbiased	0.60003	0.60005	2e-05
500	100	Unbiased	0.60027	0.60003	-0.00024
534	100	Biased	0.60009	0.59968	-0.00041
558	0	Correlation	0.60036	0.60032	-4e-05
563	100	Biased	0.60039	0.59981	-0.00058
570	3	Unbiased	0.60035	0.60042	7e-05
614	10	Unbiased	0.59993	0.59983	-0.0001
675	3	Biased	0.60039	0.60047	8e-05
713	100	Unbiased	0.60046	0.60015	-0.00031
744	50	Biased	0.59984	0.59968	-0.00016
799	50	Biased	0.59997	0.59989	-8e-05
842	30	Unbiased	0.60034	0.59996	-0.00038
889	3	Unbiased	0.59998	0.5999	-8e-05
901	3	Biased	0.60036	0.60018	-0.00018
930	50	Unbiased	0.60039	0.59997	-0.00042
968	100	Unbiased	0.60023	0.60044	0.00021
976	100	Unbiased	0.60015	0.59985	-0.0003
981	3	Biased	0.60037	0.60037	0
1003	10	Biased	0.60045	0.60039	-6e-05
1039	3	Biased	0.60033	0.60027	-6e-05
1053	100	Biased	0.60016	0.59922	-0.00094
1056	0	Correlation	0.60046	0.60043	-3e-05
1072	10	Biased	0.60006	0.60005	-1e-05
1095	50	Unbiased	0.59974	0.59927	-0.00047
1099	0	Correlation	0.6005	0.60047	-3e-05
1113	3	Biased	0.60015	0.60015	0
1142	10	Unbiased	0.60019	0.59989	-0.0003
1154	10	Biased	0.59979	0.5998	1e-05
1215	50	Unbiased	0.60008	0.60034	0.00026
1222	100	Biased	0.59983	0.59901	-0.00082
1229	50	Unbiased	0.60042	0.60017	-0.00025
1255	3	Unbiased	0.60004	0.59998	-6e-05
1331	30	Unbiased	0.60012	0.59965	-0.00047
1359	30	Biased	0.60008	0.59964	-0.00044
1375	30	Unbiased	0.60043	0.60019	-0.00024
1398	30	Biased	0.60036	0.60003	-0.00033
1411	50	Biased	0.59992	0.59921	-0.00071
1465	10	Unbiased	0.60042	0.60034	-8e-05
1474	50	Biased	0.59985	0.599	-0.00085
1504	50	Biased	0.60028	0.59979	-0.00049
1540	100	Biased	0.60036	0.60007	-0.00029
1554	3	Unbiased	0.59992	0.59987	-5e-05
1662	30	Biased	0.6002	0.60024	4e-05
1679	10	Biased	0.59988	0.59991	3e-05
1697	10	Biased	0.60009	0.60015	6e-05
1703	30	Biased	0.60064	0.60045	-0.00019
1704	10	Unbiased	0.60043	0.60034	-9e-05
1736	30	Biased	0.60004	0.59983	-0.00021
1737	0	Correlation	0.60012	0.6001	-2e-05
1748	0	Correlation	0.5998	0.59978	-2e-05

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.5998	0.60025	0.6005	0.00029072	0.59978	0.60022	0.60047	0.00028487	-4e-05	-2.8e-05	-2e-05	8.3666e-06
3	0.59992	0.60019	0.60039	0.00018654	0.59987	0.60017	0.60047	0.00021506	-0.00018	-2.6e-05	8e-05	7.7057e-05
10	0.59979	0.60015	0.60045	0.00024153	0.5998	0.60008	0.60039	0.00022208	-0.0003	-7.2e-05	6e-05	0.00010717
30	0.60004	0.6003	0.60064	0.00020264	0.59964	0.60005	0.60045	0.00030361	-0.00047	-0.00025333	4e-05	0.00017073
50	0.59974	0.60006	0.60042	0.00023797	0.599	0.59971	0.60034	0.00043175	-0.00085	-0.00034	0.00026	0.00032024
100	0.59983	0.60023	0.60046	0.00018858	0.59901	0.59979	0.60044	0.00042947	-0.00094	-0.000445	0.00021	0.00034076

Device Test: 19.24 VOLTAGE|OFFSET//14/14/0/0/5/100kHz//@EA_OS





Test Results (Upper Limit = 6.0 (mV))

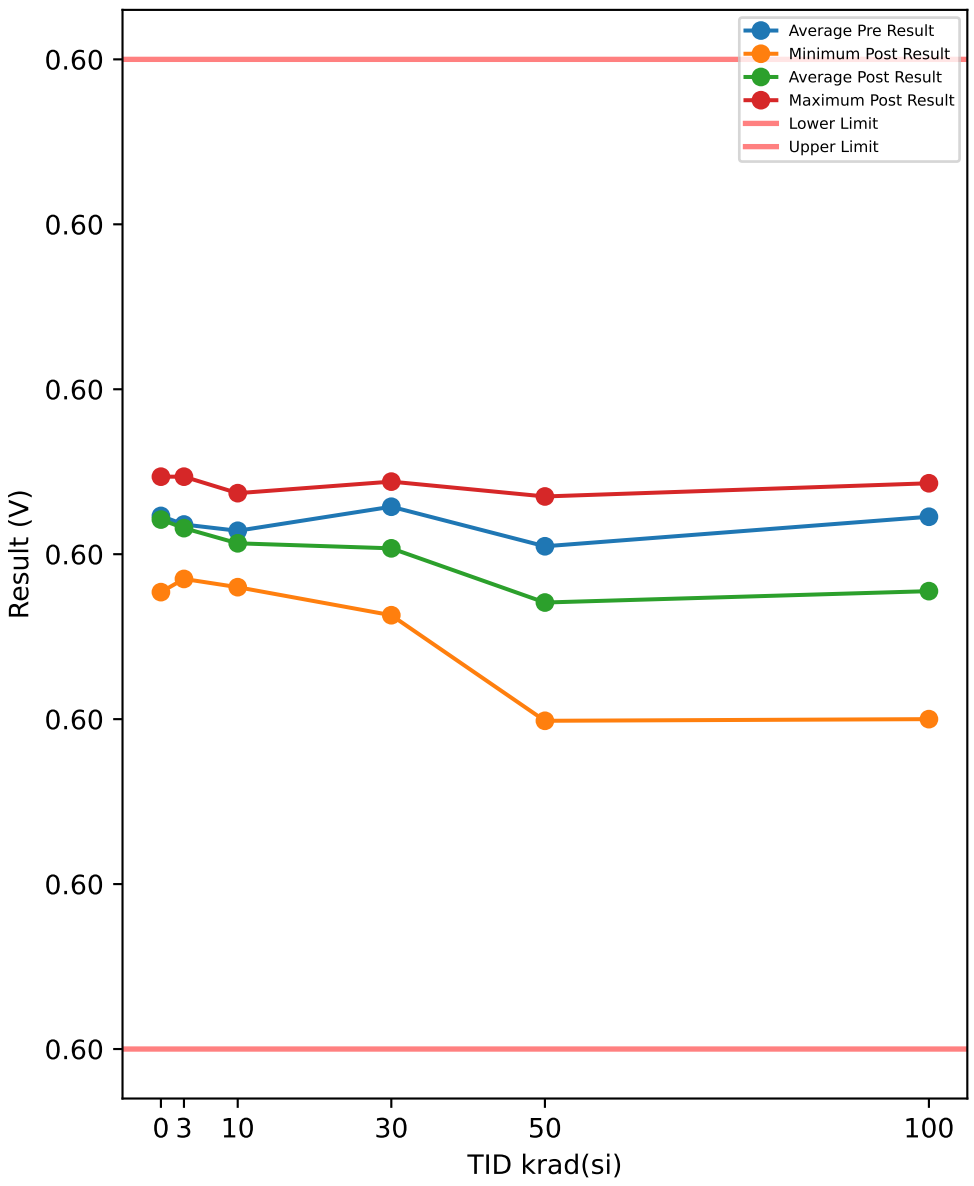
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	0.1513	0.2246	0.0733
411	100	Unbiased	0.5506	0.5843	0.0337
444	30	Unbiased	-1.2157	-1.1958	0.0199
454	10	Unbiased	0.0924	0.0786	-0.0138
491	3	Unbiased	-0.5695	-0.5796	-0.0101
500	100	Unbiased	1.4683	1.5958	0.1275
534	100	Biased	0.6492	0.7688	0.1196
558	0	Correlation	0.771	0.7555	-0.0155
563	100	Biased	-0.0448	0.015	0.0598
570	3	Unbiased	0.9108	0.9224	0.0116
614	10	Unbiased	0.7841	0.8026	0.0185
675	3	Biased	1.0019	0.9923	-0.0096
713	100	Unbiased	0.0768	0.202	0.1252
744	50	Biased	1.1078	1.1326	0.0248
799	50	Biased	0.8099	0.8481	0.0382
842	30	Unbiased	0.5887	0.6237	0.035
889	3	Unbiased	0.9539	0.9539	0
901	3	Biased	1.0226	1.0519	0.0293
930	50	Unbiased	0.2999	0.5286	0.2287
968	100	Unbiased	0.0725	0.1774	0.1049
976	100	Unbiased	0.8206	0.8466	0.026
981	3	Biased	-0.6172	-0.6014	0.0158
1003	10	Biased	-0.2171	-0.2305	-0.0134
1039	3	Biased	0.2714	0.2637	-0.0077
1053	100	Biased	0.6254	0.6476	0.0222
1056	0	Correlation	0.5101	0.5085	-0.0016
1072	10	Biased	0.6113	0.6199	0.0086
1095	50	Unbiased	0.1188	0.1399	0.0211
1099	0	Correlation	0.6662	0.6458	-0.0204
1113	3	Biased	0.9796	0.9504	-0.0292
1142	10	Unbiased	0.5835	0.612	0.0285
1154	10	Biased	1.4451	1.3957	-0.0494
1215	50	Unbiased	1.0003	1.126	0.1257
1222	100	Biased	-0.2224	-0.2009	0.0215
1229	50	Unbiased	0.6665	0.7601	0.0936
1255	3	Unbiased	0.517	0.5084	-0.0086
1331	30	Unbiased	0.1067	0.18	0.0733
1359	30	Biased	0.2903	0.2976	0.0073
1375	30	Unbiased	0.733	0.7676	0.0346
1398	30	Biased	0.3569	0.3697	0.0128
1411	50	Biased	-0.291	-0.2494	0.0416
1465	10	Unbiased	1.7792	1.822	0.0428
1474	50	Biased	-0.188	-0.1489	0.0391
1504	50	Biased	2.7084	2.7725	0.0641
1540	100	Biased	-0.6541	-0.682	-0.0279
1554	3	Unbiased	0.395	0.4013	0.0063
1662	30	Biased	-0.1552	-0.1232	0.032
1679	10	Biased	-0.4747	-0.4705	0.0042
1697	10	Biased	0.3837	0.3771	-0.0066
1703	30	Biased	-0.0751	-0.0381	0.037
1704	10	Unbiased	0.7786	0.7671	-0.0115
1736	30	Biased	-0.1918	-0.1561	0.0357
1737	0	Correlation	0.412	0.4205	0.0085
1748	0	Correlation	0.8175	0.8062	-0.0113

Test Statistics (mV)

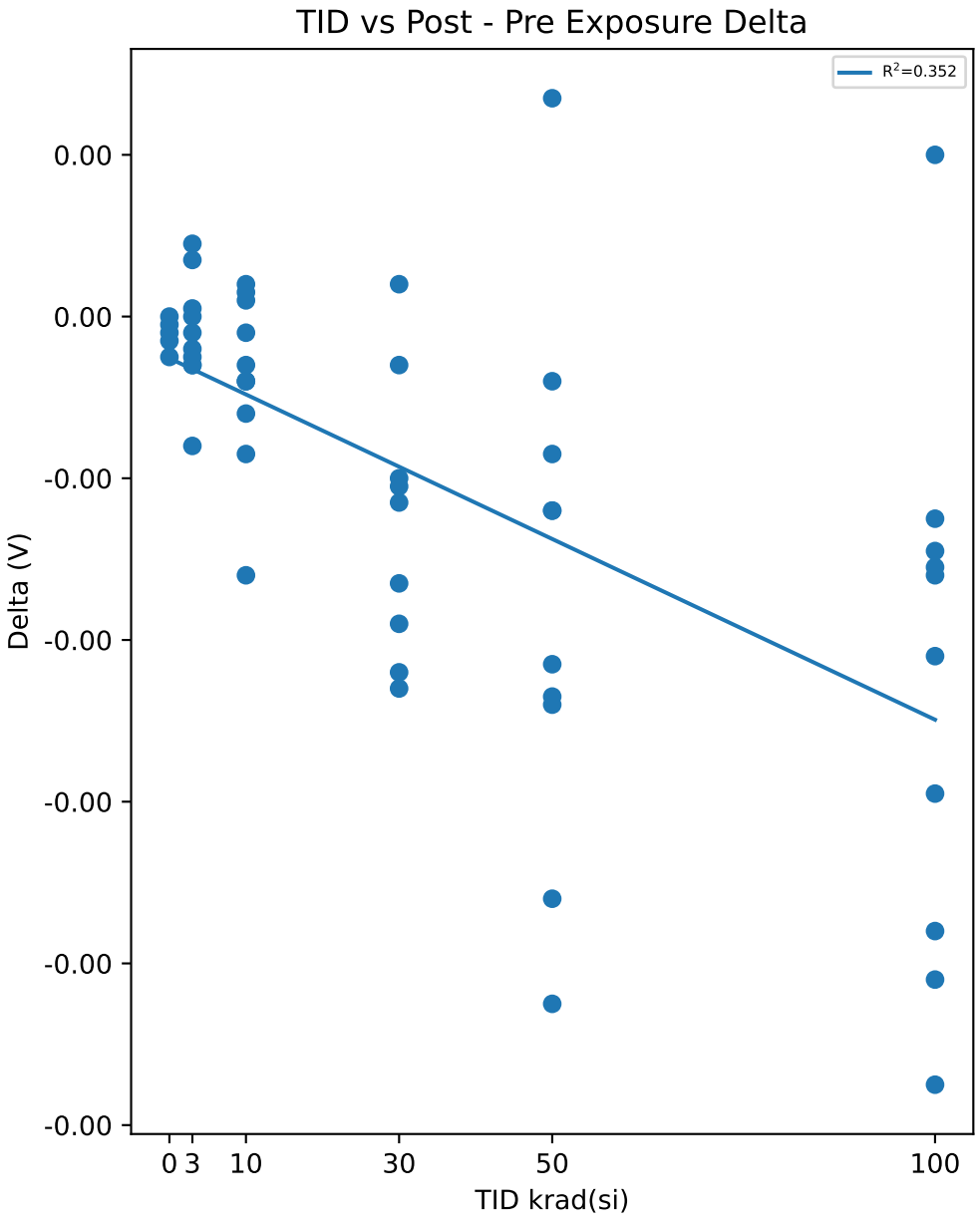
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.412	0.63536	0.8175	0.17183	0.4205	0.6273	0.8062	0.16253	-0.0204	-0.00806	0.0085	0.011555
3	-0.6172	0.48655	1.0226	0.63101	-0.6014	0.48633	1.0519	0.6304	-0.0292	-0.00022	0.0293	0.016539
10	-0.4747	0.57661	1.7792	0.69061	-0.4705	0.5774	1.822	0.69507	-0.0494	0.00079	0.0428	0.025944
30	-1.2157	0.048644	0.733	0.57337	-1.1958	0.0806	0.7676	0.57536	0.0073	0.031956	0.0733	0.018991
50	-0.291	0.63839	2.7084	0.87146	-0.2494	0.71341	2.7725	0.87424	0.0211	0.07502	0.2287	0.06311
100	-0.6541	0.33421	1.4683	0.60723	-0.682	0.39546	1.5958	0.63502	-0.0279	0.06125	0.1275	0.054615

Device Test: 19.25 VOLTAGE|VREF//12/12/0/0/5/500kHz//@VREF_25C

TID vs Result Stats



TID vs Post - Pre Exposure Delta



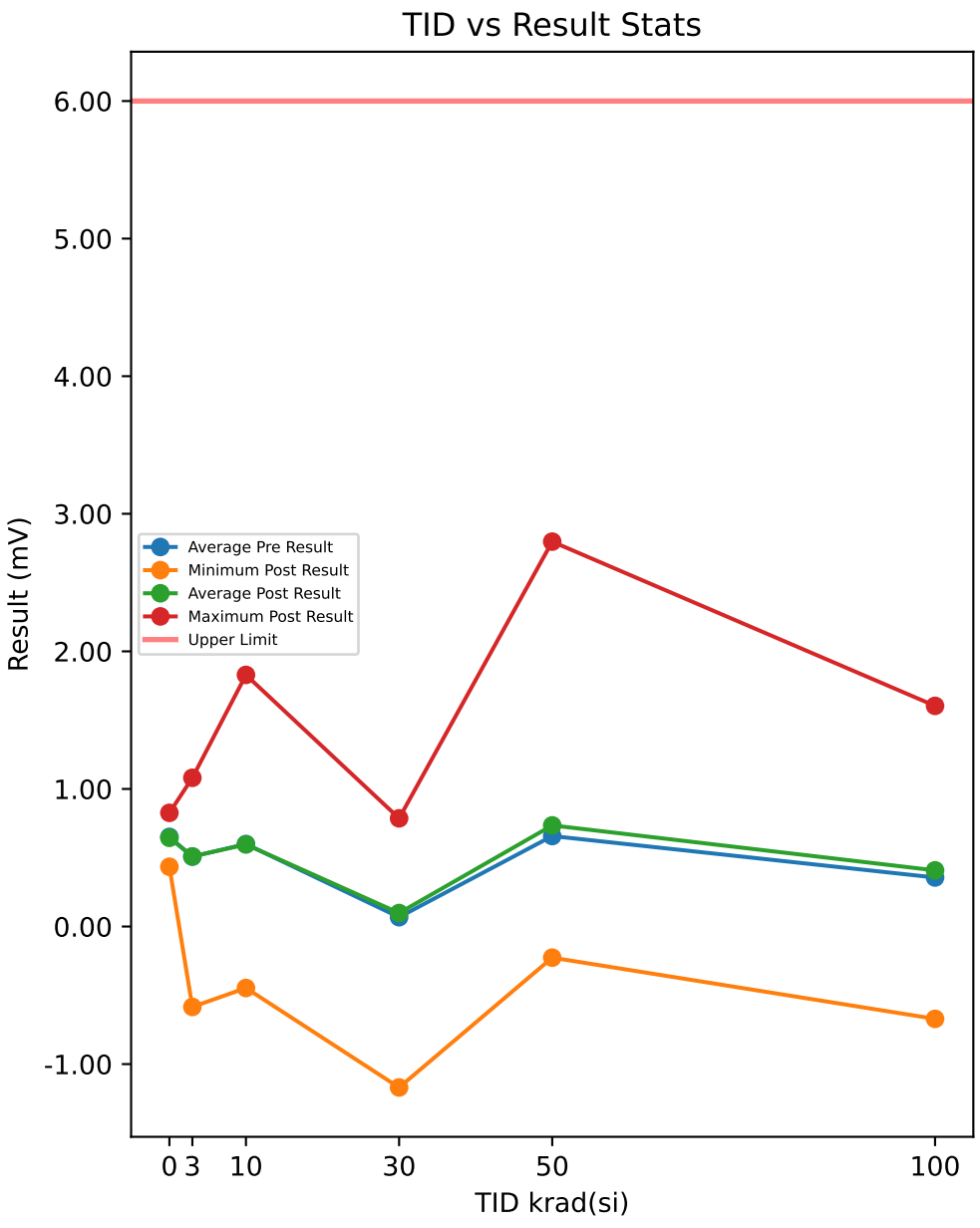
Test Results (Lower Limit = 0.597, Upper Limit = 0.603 (V))

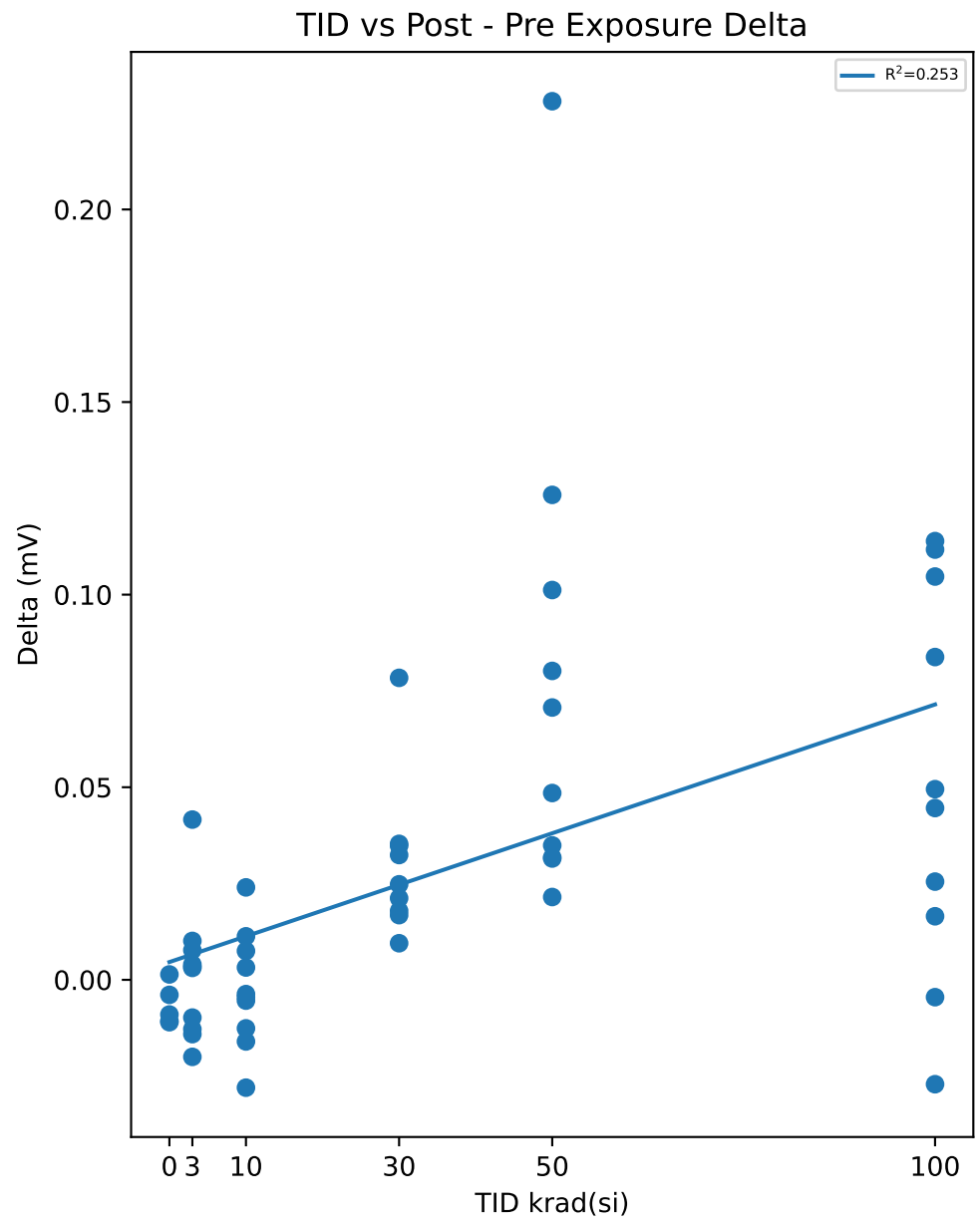
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	0.60006	0.59982	-0.00024
411	100	Unbiased	0.60039	0.59963	-0.00076
444	30	Unbiased	0.60047	0.60041	-6e-05
454	10	Unbiased	0.60027	0.6001	-0.00017
491	3	Unbiased	0.60003	0.60003	0
500	100	Unbiased	0.60027	0.60002	-0.00025
534	100	Biased	0.60007	0.59965	-0.00042
558	0	Correlation	0.60034	0.60031	-3e-05
563	100	Biased	0.60039	0.5998	-0.00059
570	3	Unbiased	0.60034	0.60041	7e-05
614	10	Unbiased	0.59992	0.5998	-0.00012
675	3	Biased	0.60038	0.60047	9e-05
713	100	Unbiased	0.60046	0.60014	-0.00032
744	50	Biased	0.59983	0.59966	-0.00017
799	50	Biased	0.59997	0.59989	-8e-05
842	30	Unbiased	0.60033	0.59995	-0.00038
889	3	Unbiased	0.59995	0.5999	-5e-05
901	3	Biased	0.60034	0.60018	-0.00016
930	50	Unbiased	0.60038	0.59995	-0.00043
968	100	Unbiased	0.60023	0.60043	0.0002
976	100	Unbiased	0.60015	0.59984	-0.00031
981	3	Biased	0.60037	0.60035	-2e-05
1003	10	Biased	0.60043	0.60037	-6e-05
1039	3	Biased	0.60031	0.60027	-4e-05
1053	100	Biased	0.60015	0.5992	-0.00095
1056	0	Correlation	0.60046	0.60041	-5e-05
1072	10	Biased	0.60006	0.60004	-2e-05
1095	50	Unbiased	0.59973	0.59926	-0.00047
1099	0	Correlation	0.60047	0.60047	0
1113	3	Biased	0.60014	0.60015	1e-05
1142	10	Unbiased	0.60019	0.59987	-0.00032
1154	10	Biased	0.59977	0.5998	3e-05
1215	50	Unbiased	0.60008	0.60035	0.00027
1222	100	Biased	0.59982	0.599	-0.00082
1229	50	Unbiased	0.60041	0.60017	-0.00024
1255	3	Unbiased	0.60003	0.59997	-6e-05
1331	30	Unbiased	0.6001	0.59964	-0.00046
1359	30	Biased	0.60007	0.59963	-0.00044
1375	30	Unbiased	0.60042	0.60019	-0.00023
1398	30	Biased	0.60035	0.60002	-0.00033
1411	50	Biased	0.59992	0.5992	-0.00072
1465	10	Unbiased	0.60041	0.60033	-8e-05
1474	50	Biased	0.59984	0.59899	-0.00085
1504	50	Biased	0.60026	0.59978	-0.00048
1540	100	Biased	0.60034	0.60005	-0.00029
1554	3	Unbiased	0.59991	0.59985	-6e-05
1662	30	Biased	0.60019	0.60023	4e-05
1679	10	Biased	0.59987	0.59989	2e-05
1697	10	Biased	0.60009	0.60013	4e-05
1703	30	Biased	0.60064	0.60044	-0.0002
1704	10	Unbiased	0.60041	0.60033	-8e-05
1736	30	Biased	0.60002	0.59981	-0.00021
1737	0	Correlation	0.6001	0.60009	-1e-05
1748	0	Correlation	0.59979	0.59977	-2e-05

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.59979	0.60023	0.60047	0.00028857	0.59977	0.60021	0.60047	0.00028531	-5e-05	-2.2e-05	0	1.9235e-05
3	0.59991	0.60018	0.60038	0.00018756	0.59985	0.60016	0.60047	0.00021704	-0.00016	-2.2e-05	9e-05	7.1149e-05
10	0.59977	0.60014	0.60043	0.00023953	0.5998	0.60007	0.60037	0.00022327	-0.00032	-7.6e-05	4e-05	0.00010936
30	0.60002	0.60029	0.60064	0.00020747	0.59963	0.60004	0.60044	0.00030513	-0.00046	-0.00025222	4e-05	0.00016888
50	0.59973	0.60005	0.60041	0.00023612	0.59899	0.59971	0.60035	0.0004361	-0.00085	-0.000341	0.00027	0.00032278
100	0.59982	0.60023	0.60046	0.0001898	0.599	0.59978	0.60043	0.00043084	-0.00095	-0.000451	0.0002	0.00033798

Device Test: 19.27 VOLTAGE|OFFSET//12/12/0/0/5/500kHz//@EA_OS





Test Results (Upper Limit = 6.0 (mV))

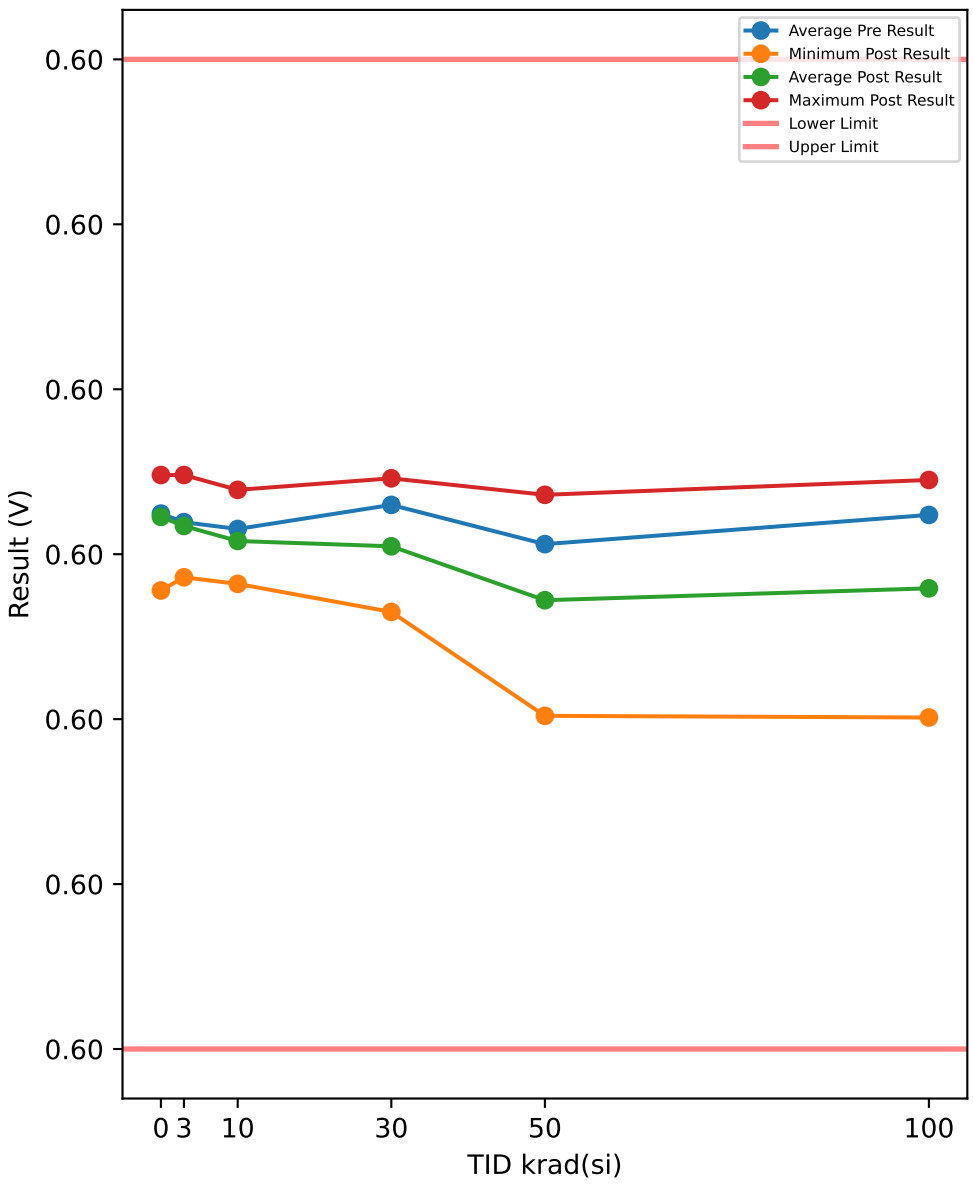
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	0.1683	0.239	0.0707
411	100	Unbiased	0.5621	0.6067	0.0446
444	30	Unbiased	-1.1879	-1.17	0.0179
454	10	Unbiased	0.1103	0.0943	-0.016
491	3	Unbiased	-0.5453	-0.5653	-0.02
500	100	Unbiased	1.4921	1.6038	0.1117
534	100	Biased	0.6739	0.7786	0.1047
558	0	Correlation	0.7827	0.7717	-0.011
563	100	Biased	-0.0264	0.0231	0.0495
570	3	Unbiased	0.9392	0.9426	0.0034
614	10	Unbiased	0.8157	0.812	-0.0037
675	3	Biased	1.0244	1.0116	-0.0128
713	100	Unbiased	0.1074	0.2213	0.1139
744	50	Biased	1.1253	1.1568	0.0315
799	50	Biased	0.8389	0.8707	0.0318
842	30	Unbiased	0.6088	0.6436	0.0348
889	3	Unbiased	0.9857	0.9759	-0.0098
901	3	Biased	1.0393	1.0809	0.0416
930	50	Unbiased	0.3155	0.5436	0.2281
968	100	Unbiased	0.1012	0.185	0.0838
976	100	Unbiased	0.8418	0.8583	0.0165
981	3	Biased	-0.5946	-0.5845	0.0101
1003	10	Biased	-0.2043	-0.2097	-0.0054
1039	3	Biased	0.283	0.2861	0.0031
1053	100	Biased	0.6606	0.6561	-0.0045
1056	0	Correlation	0.5331	0.5224	-0.0107
1072	10	Biased	0.6391	0.6504	0.0113
1095	50	Unbiased	0.1442	0.1657	0.0215
1099	0	Correlation	0.6728	0.6689	-0.0039
1113	3	Biased	0.9958	0.9817	-0.0141
1142	10	Unbiased	0.6181	0.6213	0.0032
1154	10	Biased	1.447	1.419	-0.028
1215	50	Unbiased	1.0239	1.1498	0.1259
1222	100	Biased	-0.2053	-0.1798	0.0255
1229	50	Unbiased	0.6822	0.7834	0.1012
1255	3	Unbiased	0.5351	0.5391	0.004
1331	30	Unbiased	0.1121	0.1905	0.0784
1359	30	Biased	0.3073	0.3168	0.0095
1375	30	Unbiased	0.7539	0.7863	0.0324
1398	30	Biased	0.3673	0.3885	0.0212
1411	50	Biased	-0.2612	-0.2263	0.0349
1465	10	Unbiased	1.8049	1.8289	0.024
1474	50	Biased	-0.1782	-0.1297	0.0485
1504	50	Biased	2.7174	2.7976	0.0802
1540	100	Biased	-0.6441	-0.6712	-0.0271
1554	3	Unbiased	0.419	0.4267	0.0077
1662	30	Biased	-0.1372	-0.1019	0.0353
1679	10	Biased	-0.4543	-0.4468	0.0075
1697	10	Biased	0.4165	0.4039	-0.0126
1703	30	Biased	-0.0482	-0.0234	0.0248
1704	10	Unbiased	0.7994	0.7949	-0.0045
1736	30	Biased	-0.1657	-0.1489	0.0168
1737	0	Correlation	0.433	0.4344	0.0014
1748	0	Correlation	0.8352	0.8262	-0.009

Test Statistics (mV)

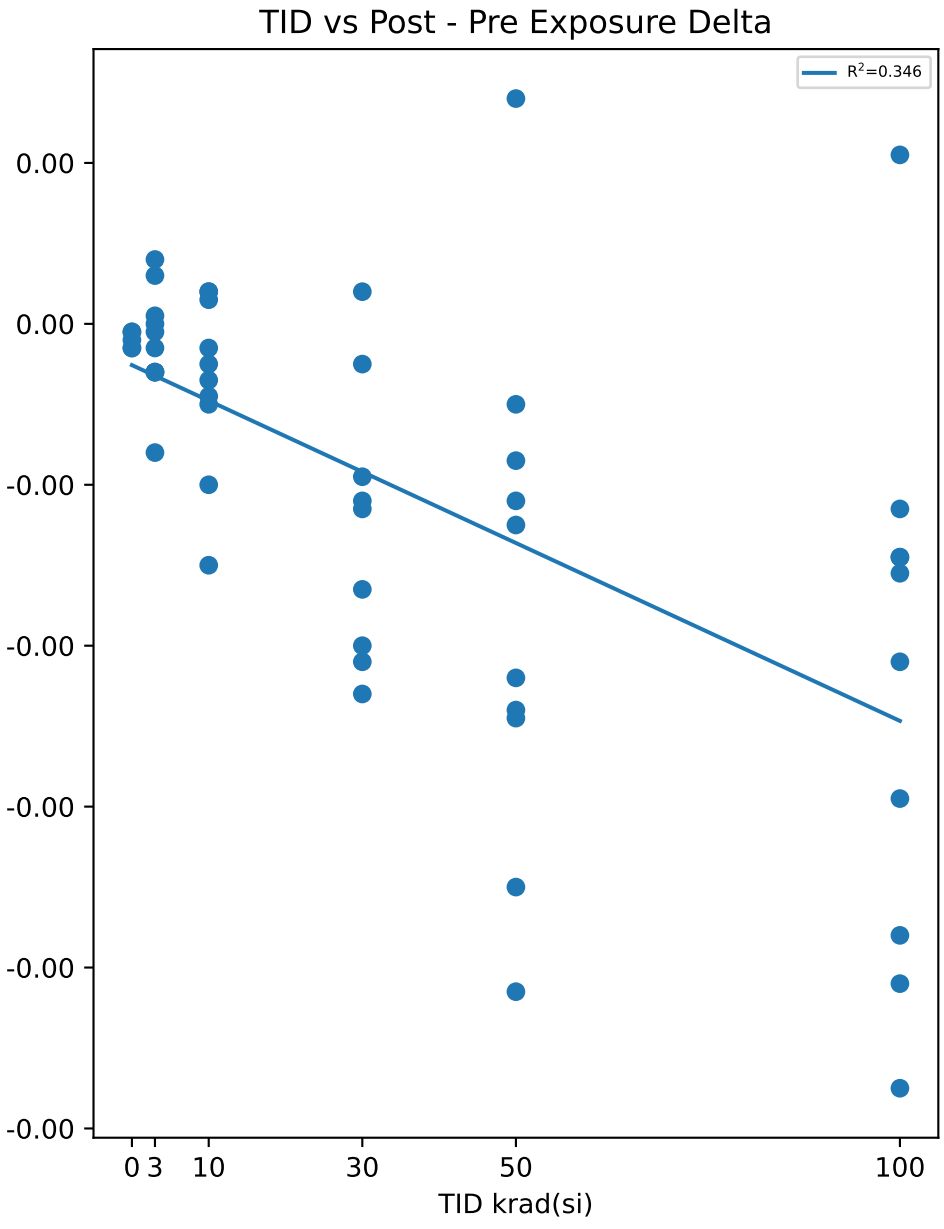
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.433	0.65136	0.8352	0.16821	0.4344	0.64472	0.8262	0.16495	-0.011	-0.00664	0.0014	0.0053201
3	-0.5946	0.50816	1.0393	0.63118	-0.5845	0.50948	1.0809	0.63389	-0.02	0.00132	0.0416	0.017545
10	-0.4543	0.59924	1.8049	0.69035	-0.4468	0.59682	1.8289	0.69221	-0.028	-0.00242	0.024	0.014808
30	-1.1879	0.067822	0.7539	0.57	-1.17	0.097944	0.7863	0.57399	0.0095	0.030122	0.0784	0.020139
50	-0.2612	0.65763	2.7174	0.86871	-0.2263	0.73506	2.7976	0.87582	0.0215	0.07743	0.2281	0.062924
100	-0.6441	0.35633	1.4921	0.61021	-0.6712	0.40819	1.6038	0.63368	-0.0271	0.05186	0.1139	0.050174

Device Test: 19.28 VOLTAGE|VREF//14/14/0/0/5/500kHz//@VREF_25C

TID vs Result Stats



TID vs Post - Pre Exposure Delta



Test Results (Lower Limit = 0.597, Upper Limit = 0.603 (V))

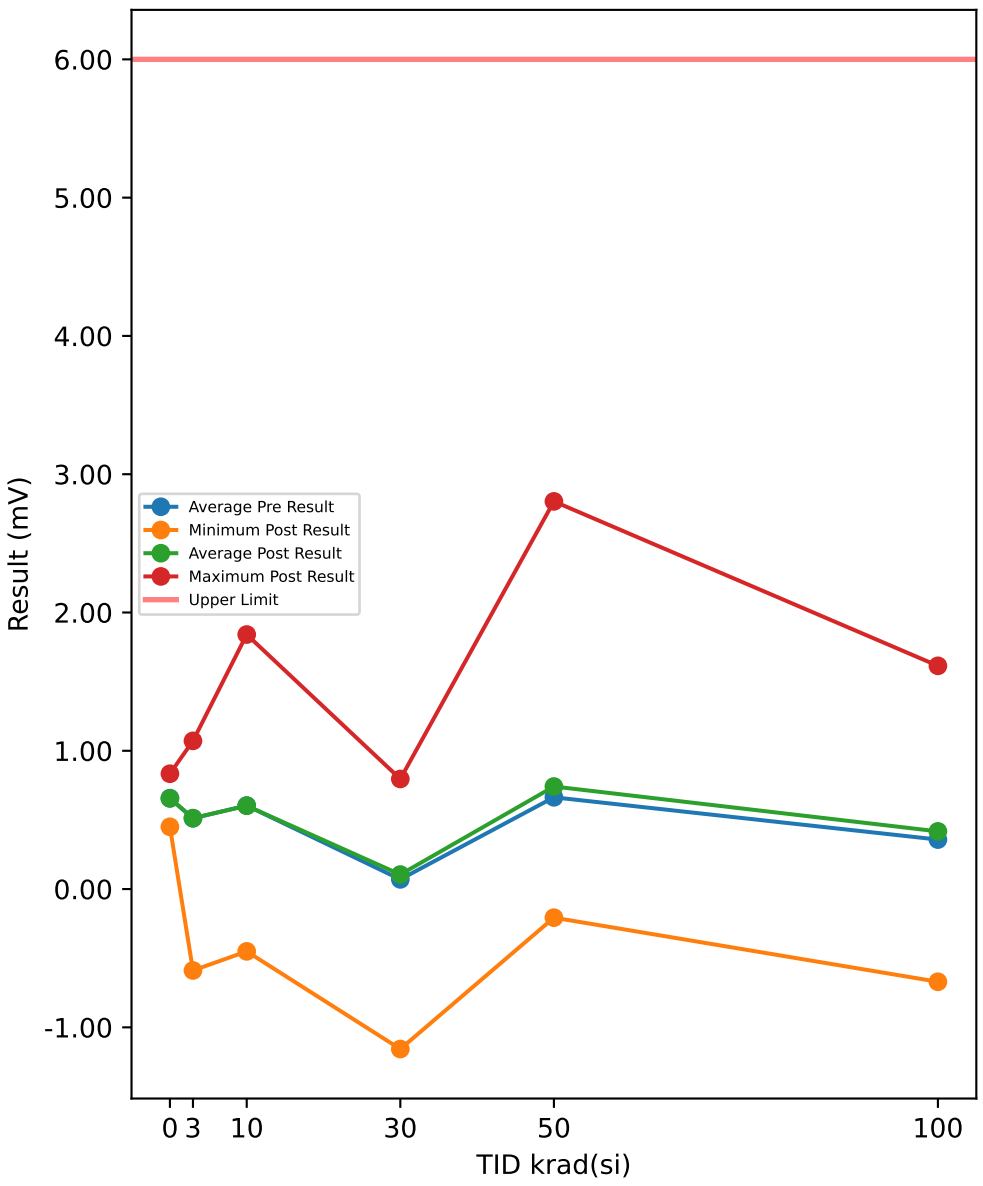
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	0.60006	0.59984	-0.00022
411	100	Unbiased	0.60041	0.59965	-0.00076
444	30	Unbiased	0.60048	0.60043	-5e-05
454	10	Unbiased	0.6003	0.6001	-0.0002
491	3	Unbiased	0.60004	0.60005	1e-05
500	100	Unbiased	0.60027	0.60004	-0.00023
534	100	Biased	0.60009	0.59967	-0.00042
558	0	Correlation	0.60035	0.60032	-3e-05
563	100	Biased	0.6004	0.59981	-0.00059
570	3	Unbiased	0.60036	0.60042	6e-05
614	10	Unbiased	0.59993	0.59983	-0.0001
675	3	Biased	0.6004	0.60048	8e-05
713	100	Unbiased	0.60048	0.60017	-0.00031
744	50	Biased	0.59985	0.59968	-0.00017
799	50	Biased	0.59999	0.59989	-0.0001
842	30	Unbiased	0.60035	0.59995	-0.0004
889	3	Unbiased	0.59998	0.59992	-6e-05
901	3	Biased	0.60035	0.60019	-0.00016
930	50	Unbiased	0.6004	0.59996	-0.00044
968	100	Unbiased	0.60024	0.60045	0.00021
976	100	Unbiased	0.60015	0.59986	-0.00029
981	3	Biased	0.60037	0.60036	-1e-05
1003	10	Biased	0.60044	0.60039	-5e-05
1039	3	Biased	0.60032	0.60029	-3e-05
1053	100	Biased	0.60016	0.59921	-0.00095
1056	0	Correlation	0.60046	0.60043	-3e-05
1072	10	Biased	0.60007	0.60004	-3e-05
1095	50	Unbiased	0.59975	0.59927	-0.00048
1099	0	Correlation	0.60049	0.60048	-1e-05
1113	3	Biased	0.60016	0.60016	0
1142	10	Unbiased	0.60019	0.59989	-0.0003
1154	10	Biased	0.59978	0.59982	4e-05
1215	50	Unbiased	0.60008	0.60036	0.00028
1222	100	Biased	0.59983	0.59901	-0.00082
1229	50	Unbiased	0.60043	0.60018	-0.00025
1255	3	Unbiased	0.60004	0.59998	-6e-05
1331	30	Unbiased	0.60011	0.59965	-0.00046
1359	30	Biased	0.60007	0.59965	-0.00042
1375	30	Unbiased	0.60043	0.6002	-0.00023
1398	30	Biased	0.60036	0.60003	-0.00033
1411	50	Biased	0.59992	0.59922	-0.0007
1465	10	Unbiased	0.60043	0.60034	-9e-05
1474	50	Biased	0.59985	0.59902	-0.00083
1504	50	Biased	0.60028	0.59979	-0.00049
1540	100	Biased	0.60035	0.60006	-0.00029
1554	3	Unbiased	0.59992	0.59986	-6e-05
1662	30	Biased	0.6002	0.60024	4e-05
1679	10	Biased	0.59987	0.5999	3e-05
1697	10	Biased	0.6001	0.60014	4e-05
1703	30	Biased	0.60065	0.60046	-0.00019
1704	10	Unbiased	0.60042	0.60035	-7e-05
1736	30	Biased	0.60004	0.59982	-0.00022
1737	0	Correlation	0.60013	0.60012	-1e-05
1748	0	Correlation	0.5998	0.59978	-2e-05

Test Statistics (V)

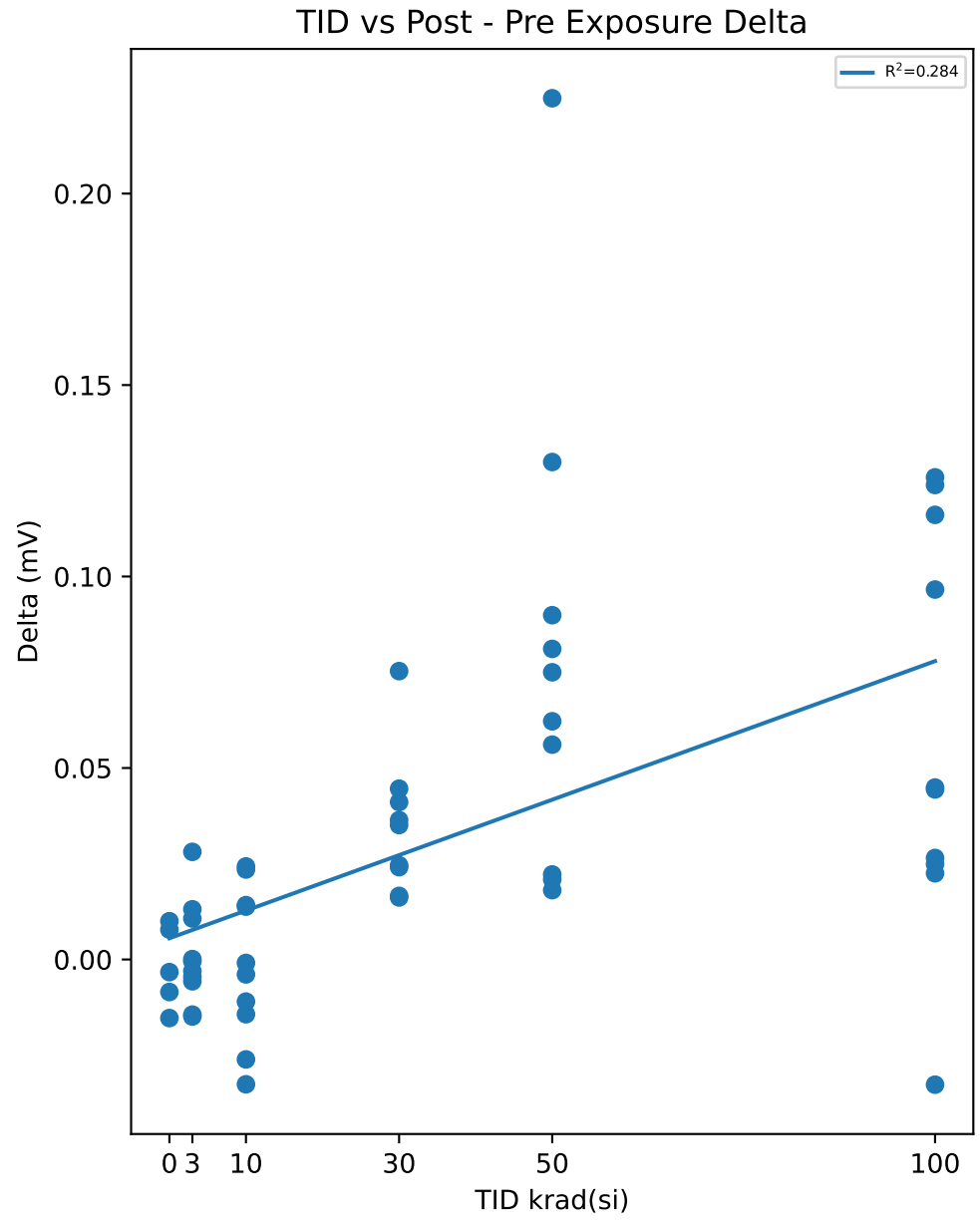
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.5998	0.60025	0.60049	0.00028658	0.59978	0.60023	0.60048	0.0002851	-3e-05	-2e-05	-1e-05	1e-05
3	0.59992	0.60019	0.6004	0.00018578	0.59986	0.60017	0.60048	0.00021569	-0.00016	-2.3e-05	8e-05	6.8484e-05
10	0.59978	0.60015	0.60044	0.00024313	0.59982	0.60008	0.60039	0.00022131	-0.0003	-7.3e-05	4e-05	0.00010914
30	0.60004	0.6003	0.60065	0.00020751	0.59965	0.60005	0.60046	0.00030707	-0.00046	-0.00025111	4e-05	0.00016989
50	0.59975	0.60006	0.60043	0.00023807	0.59902	0.59972	0.60036	0.0004309	-0.00083	-0.00034	0.00028	0.00031889
100	0.59983	0.60024	0.60048	0.00019153	0.59901	0.59979	0.60045	0.00043454	-0.00095	-0.000445	0.00021	0.00034287

Device Test: 19.30 VOLTAGE|OFFSET//14/14/0/0/5/500kHz//@EA_OS

TID vs Result Stats



TID vs Post - Pre Exposure Delta



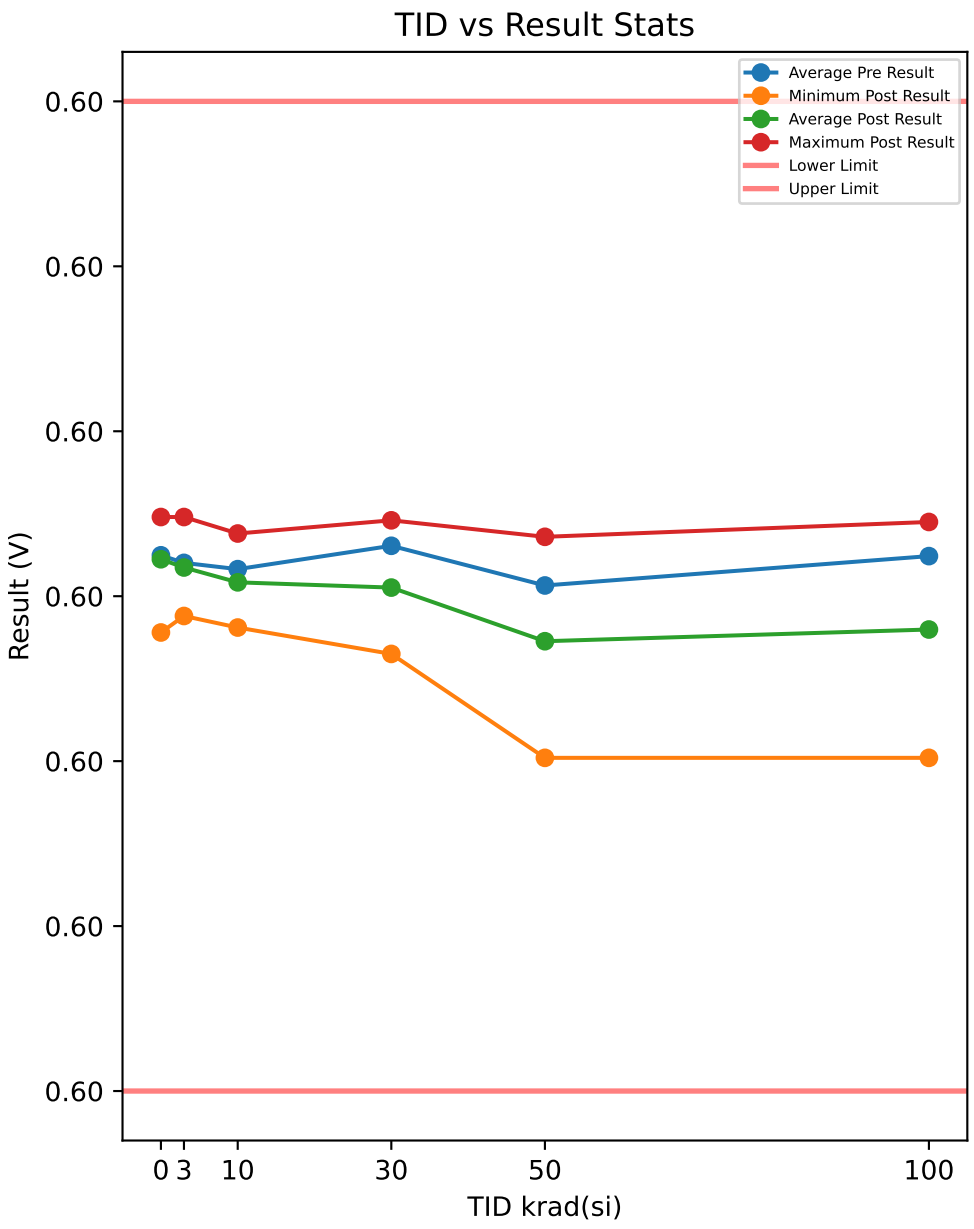
Test Results (Upper Limit = 6.0 (mV))

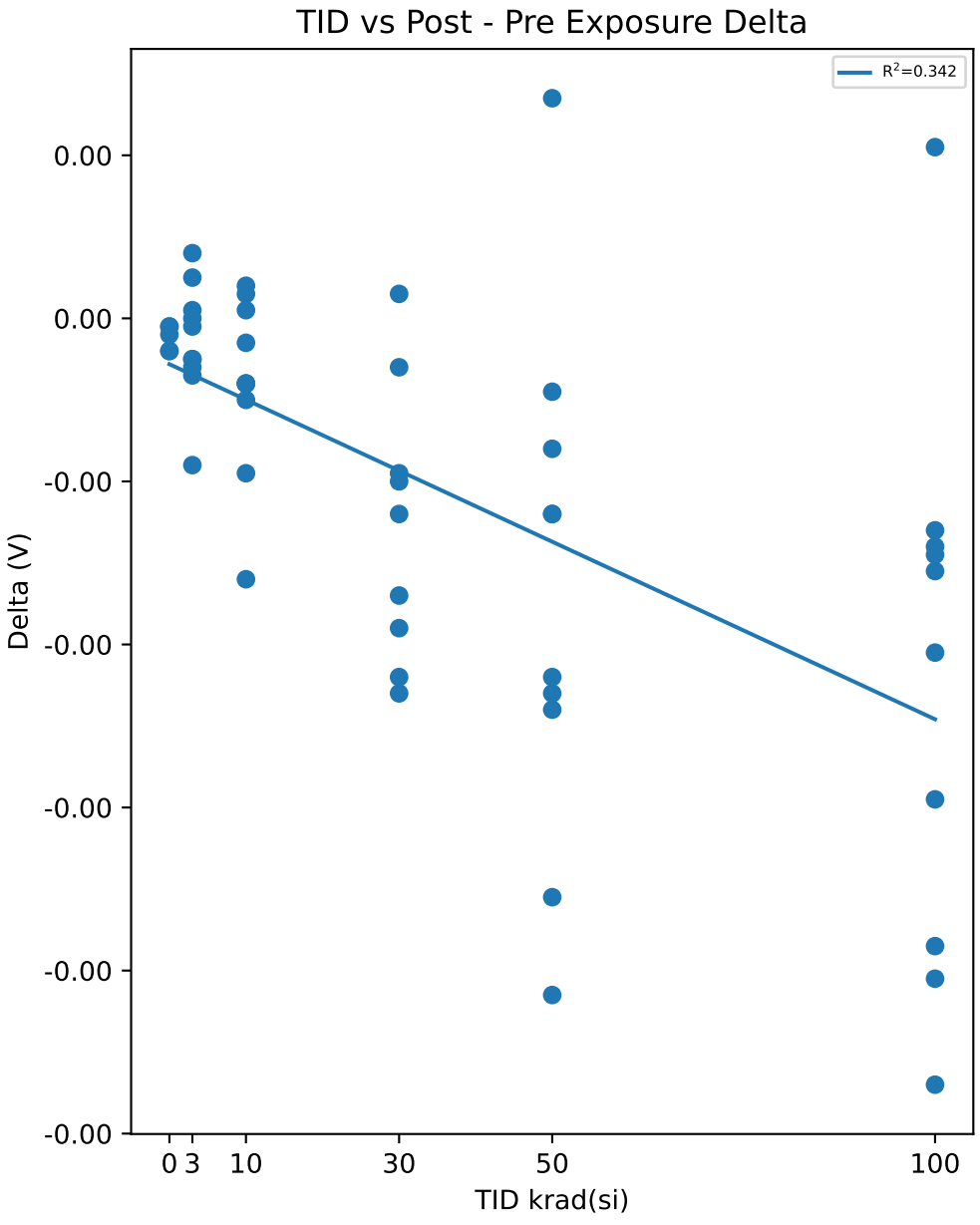
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	0.1722	0.2533	0.0811
411	100	Unbiased	0.5679	0.6123	0.0444
444	30	Unbiased	-1.1919	-1.1568	0.0351
454	10	Unbiased	0.1254	0.0928	-0.0326
491	3	Unbiased	-0.5411	-0.5555	-0.0144
500	100	Unbiased	1.4903	1.6142	0.1239
534	100	Biased	0.6762	0.7923	0.1161
558	0	Correlation	0.7866	0.7713	-0.0153
563	100	Biased	-0.0217	0.0232	0.0449
570	3	Unbiased	0.9472	0.9427	-0.0045
614	10	Unbiased	0.8153	0.8295	0.0142
675	3	Biased	1.0267	1.0237	-0.003
713	100	Unbiased	0.1084	0.2343	0.1259
744	50	Biased	1.1342	1.1564	0.0222
799	50	Biased	0.848	0.8661	0.0181
842	30	Unbiased	0.6258	0.6424	0.0166
889	3	Unbiased	0.9787	0.9894	0.0107
901	3	Biased	1.0435	1.0716	0.0281
930	50	Unbiased	0.3344	0.5593	0.2249
968	100	Unbiased	0.0985	0.1951	0.0966
976	100	Unbiased	0.8505	0.873	0.0225
981	3	Biased	-0.5888	-0.5887	0.0001
1003	10	Biased	-0.1956	-0.2099	-0.0143
1039	3	Biased	0.2865	0.2996	0.0131
1053	100	Biased	0.651	0.6775	0.0265
1056	0	Correlation	0.5343	0.5443	0.01
1072	10	Biased	0.6347	0.6485	0.0138
1095	50	Unbiased	0.1479	0.1688	0.0209
1099	0	Correlation	0.6863	0.6778	-0.0085
1113	3	Biased	1.0047	0.9898	-0.0149
1142	10	Unbiased	0.6192	0.6427	0.0235
1154	10	Biased	1.4537	1.4276	-0.0261
1215	50	Unbiased	1.0217	1.1516	0.1299
1222	100	Biased	-0.2046	-0.1797	0.0249
1229	50	Unbiased	0.6962	0.7861	0.0899
1255	3	Unbiased	0.5448	0.5391	-0.0057
1331	30	Unbiased	0.1146	0.1899	0.0753
1359	30	Biased	0.3061	0.3302	0.0241
1375	30	Unbiased	0.7516	0.7962	0.0446
1398	30	Biased	0.3724	0.397	0.0246
1411	50	Biased	-0.269	-0.2068	0.0622
1465	10	Unbiased	1.8164	1.8407	0.0243
1474	50	Biased	-0.178	-0.1219	0.0561
1504	50	Biased	2.7285	2.8035	0.075
1540	100	Biased	-0.6377	-0.6704	-0.0327
1554	3	Unbiased	0.4177	0.4172	-0.0005
1662	30	Biased	-0.1408	-0.0997	0.0411
1679	10	Biased	-0.4467	-0.4506	-0.0039
1697	10	Biased	0.4186	0.4076	-0.011
1703	30	Biased	-0.0448	-0.0084	0.0364
1704	10	Unbiased	0.7969	0.796	-0.0009
1736	30	Biased	-0.1616	-0.1454	0.0162
1737	0	Correlation	0.4424	0.4502	0.0078
1748	0	Correlation	0.8373	0.834	-0.0033

Test Statistics (mV)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.4424	0.65738	0.8373	0.16679	0.4502	0.65552	0.834	0.15834	-0.0153	-0.00186	0.01	0.010733
3	-0.5888	0.51199	1.0435	0.63061	-0.5887	0.51289	1.0716	0.63444	-0.0149	0.0009	0.0281	0.013161
10	-0.4467	0.60379	1.8164	0.68974	-0.4506	0.60249	1.8407	0.69709	-0.0326	-0.0013	0.0243	0.020009
30	-1.1919	0.070156	0.7516	0.57297	-1.1568	0.10504	0.7962	0.5722	0.0162	0.034889	0.0753	0.018283
50	-0.269	0.66361	2.7285	0.87193	-0.2068	0.74164	2.8035	0.87267	0.0181	0.07803	0.2249	0.062472
100	-0.6377	0.35788	1.4903	0.60897	-0.6704	0.41718	1.6142	0.63808	-0.0327	0.0593	0.1259	0.053472

Device Test: 19.31 VOLTAGE|VREF//12/12/0/1000/5/100kHz//@VREF_25C





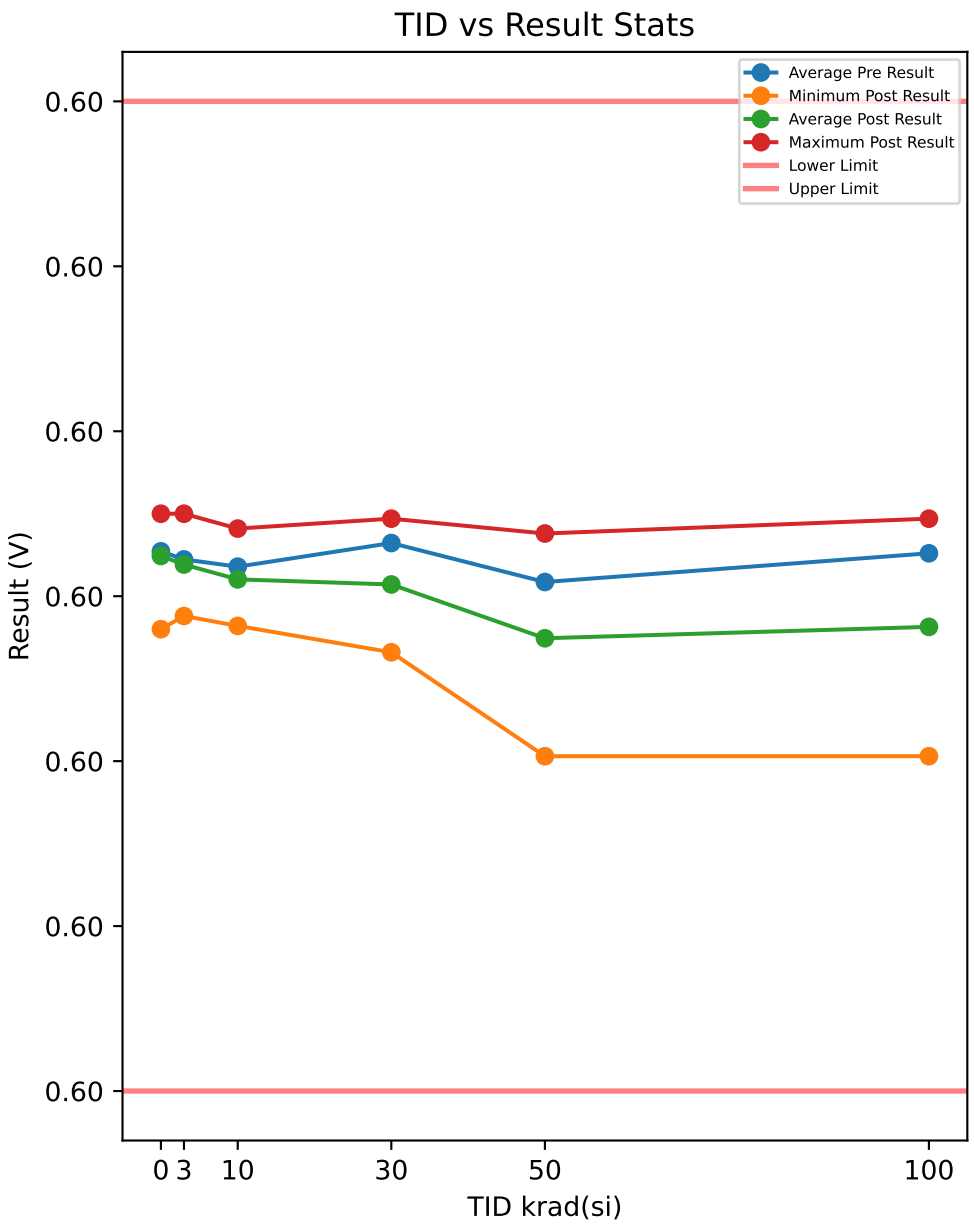
Test Results (Lower Limit = 0.597, Upper Limit = 0.603 (V))

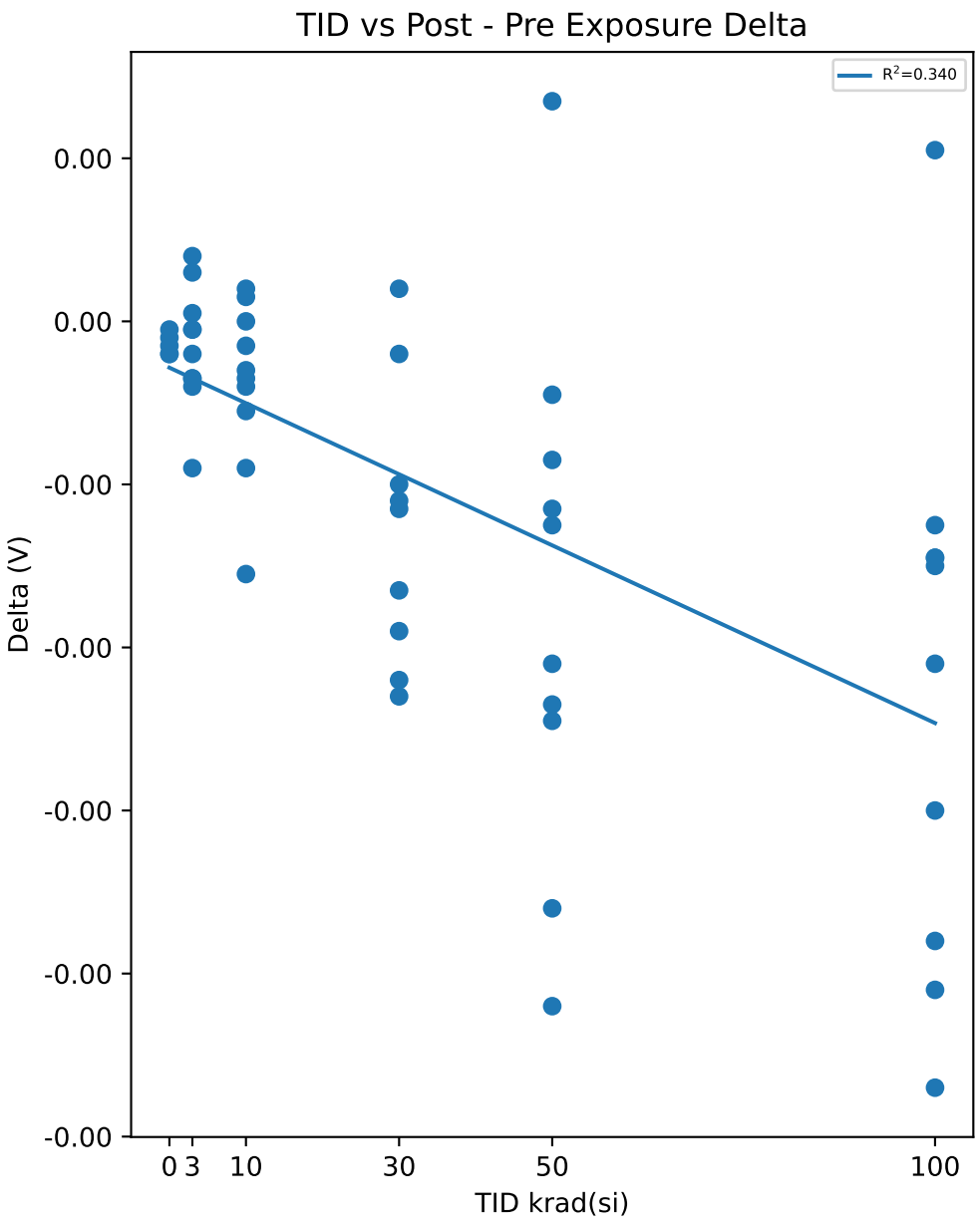
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	0.60007	0.59983	-0.00024
411	100	Unbiased	0.60042	0.59965	-0.00077
444	30	Unbiased	0.60048	0.60042	-6e-05
454	10	Unbiased	0.6003	0.60011	-0.00019
491	3	Unbiased	0.60005	0.60006	1e-05
500	100	Unbiased	0.60029	0.60003	-0.00026
534	100	Biased	0.6001	0.59969	-0.00041
558	0	Correlation	0.60036	0.60032	-4e-05
563	100	Biased	0.6004	0.59981	-0.00059
570	3	Unbiased	0.60037	0.60042	5e-05
614	10	Unbiased	0.59993	0.59983	-0.0001
675	3	Biased	0.6004	0.60048	8e-05
713	100	Unbiased	0.60048	0.60017	-0.00031
744	50	Biased	0.59985	0.59969	-0.00016
799	50	Biased	0.59999	0.5999	-9e-05
842	30	Unbiased	0.60035	0.59997	-0.00038
889	3	Unbiased	0.59998	0.59991	-7e-05
901	3	Biased	0.60037	0.60019	-0.00018
930	50	Unbiased	0.60041	0.59997	-0.00044
968	100	Unbiased	0.60024	0.60045	0.00021
976	100	Unbiased	0.60015	0.59987	-0.00028
981	3	Biased	0.60038	0.60037	-1e-05
1003	10	Biased	0.60046	0.60038	-8e-05
1039	3	Biased	0.60033	0.60028	-5e-05
1053	100	Biased	0.60016	0.59922	-0.00094
1056	0	Correlation	0.60047	0.60043	-4e-05
1072	10	Biased	0.60008	0.60005	-3e-05
1095	50	Unbiased	0.59975	0.59929	-0.00046
1099	0	Correlation	0.60049	0.60048	-1e-05
1113	3	Biased	0.60016	0.60016	0
1142	10	Unbiased	0.60021	0.59989	-0.00032
1154	10	Biased	0.5998	0.59981	1e-05
1215	50	Unbiased	0.60009	0.60036	0.00027
1222	100	Biased	0.59983	0.59902	-0.00081
1229	50	Unbiased	0.60042	0.60018	-0.00024
1255	3	Unbiased	0.60005	0.59999	-6e-05
1331	30	Unbiased	0.60012	0.59966	-0.00046
1359	30	Biased	0.60009	0.59965	-0.00044
1375	30	Unbiased	0.60044	0.6002	-0.00024
1398	30	Biased	0.60037	0.60003	-0.00034
1411	50	Biased	0.59994	0.59923	-0.00071
1465	10	Unbiased	0.60043	0.60035	-8e-05
1474	50	Biased	0.59985	0.59902	-0.00083
1504	50	Biased	0.60028	0.5998	-0.00048
1540	100	Biased	0.60036	0.60007	-0.00029
1554	3	Unbiased	0.59993	0.59988	-5e-05
1662	30	Biased	0.60021	0.60024	3e-05
1679	10	Biased	0.59989	0.59992	3e-05
1697	10	Biased	0.60012	0.60016	4e-05
1703	30	Biased	0.60065	0.60046	-0.00019
1704	10	Unbiased	0.60042	0.60034	-8e-05
1736	30	Biased	0.60004	0.59984	-0.0002
1737	0	Correlation	0.60012	0.60011	-1e-05
1748	0	Correlation	0.5998	0.59978	-2e-05

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.5998	0.60025	0.60049	0.00029047	0.59978	0.60022	0.60048	0.00028606	-4e-05	-2.4e-05	-1e-05	1.5166e-05
3	0.59993	0.6002	0.6004	0.00018707	0.59988	0.60017	0.60048	0.00021272	-0.00018	-2.8e-05	8e-05	7.2388e-05
10	0.5998	0.60016	0.60046	0.00023941	0.59981	0.60008	0.60038	0.00022001	-0.00032	-8e-05	4e-05	0.00010914
30	0.60004	0.60031	0.60065	0.00020427	0.59965	0.60005	0.60046	0.00030136	-0.00046	-0.00025333	3e-05	0.000168
50	0.59975	0.60007	0.60042	0.00023684	0.59902	0.59973	0.60036	0.00042818	-0.00083	-0.000338	0.00027	0.00031762
100	0.59983	0.60024	0.60048	0.00019282	0.59902	0.5998	0.60045	0.0004307	-0.00094	-0.000445	0.00021	0.00033975

Device Test: 19.33 VOLTAGE|VREF//14/14/0/1000/5/100kHz//@VREF_25C





Test Results (Lower Limit = 0.597, Upper Limit = 0.603 (V))

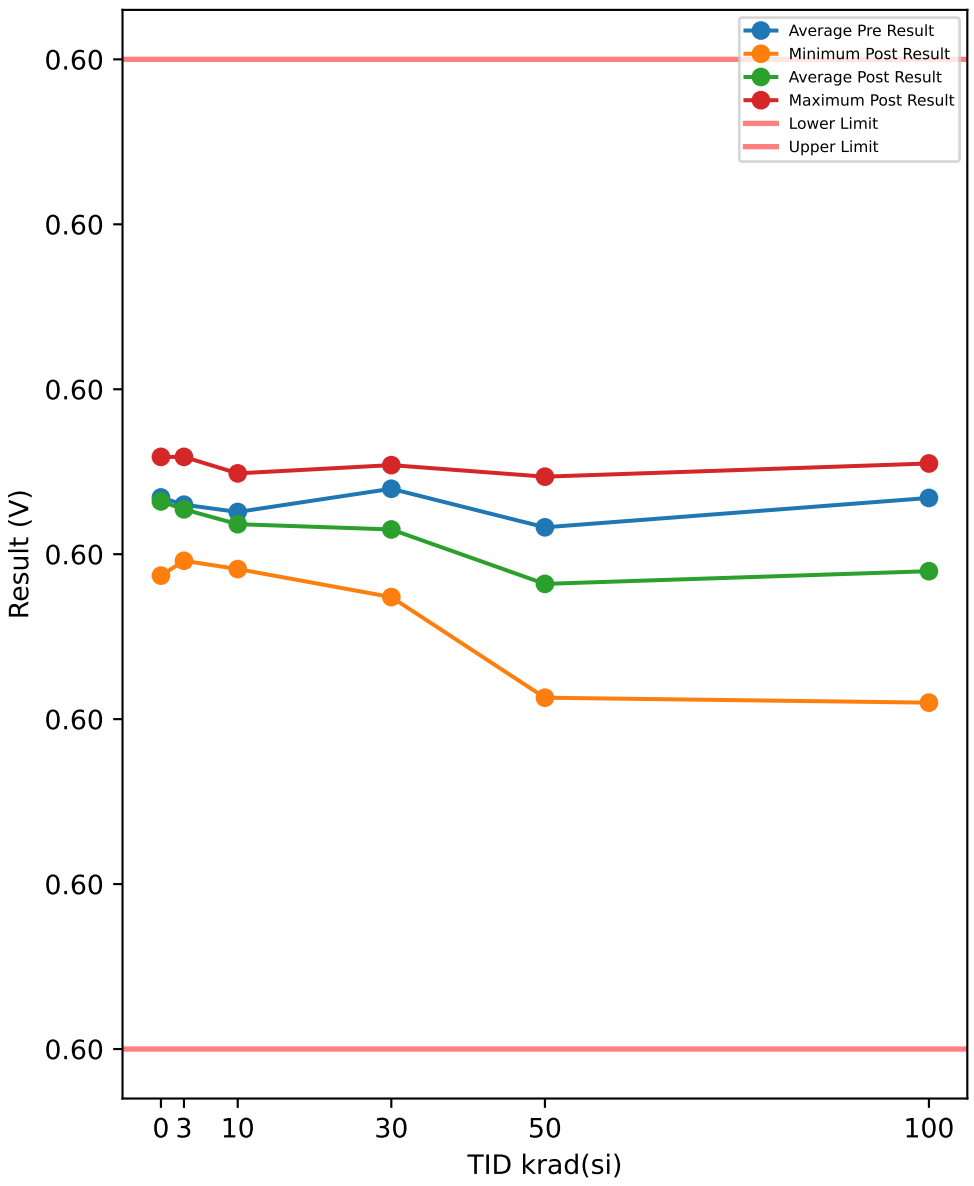
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	0.60009	0.59986	-0.00023
411	100	Unbiased	0.60043	0.59967	-0.00076
444	30	Unbiased	0.60049	0.60045	-4e-05
454	10	Unbiased	0.60031	0.60013	-0.00018
491	3	Unbiased	0.60007	0.60008	1e-05
500	100	Unbiased	0.6003	0.60005	-0.00025
534	100	Biased	0.60012	0.5997	-0.00042
558	0	Correlation	0.60039	0.60035	-4e-05
563	100	Biased	0.60043	0.59983	-0.0006
570	3	Unbiased	0.60039	0.60045	6e-05
614	10	Unbiased	0.59996	0.59985	-0.00011
675	3	Biased	0.60042	0.6005	8e-05
713	100	Unbiased	0.60049	0.60019	-0.0003
744	50	Biased	0.59987	0.5997	-0.00017
799	50	Biased	0.60001	0.59992	-9e-05
842	30	Unbiased	0.60037	0.59999	-0.00038
889	3	Unbiased	0.60001	0.59993	-8e-05
901	3	Biased	0.60039	0.60021	-0.00018
930	50	Unbiased	0.60042	0.6	-0.00042
968	100	Unbiased	0.60026	0.60047	0.00021
976	100	Unbiased	0.60017	0.59988	-0.00029
981	3	Biased	0.6004	0.60039	-1e-05
1003	10	Biased	0.60047	0.60041	-6e-05
1039	3	Biased	0.60035	0.60031	-4e-05
1053	100	Biased	0.60017	0.59923	-0.00094
1056	0	Correlation	0.60048	0.60044	-4e-05
1072	10	Biased	0.60009	0.60006	-3e-05
1095	50	Unbiased	0.59977	0.5993	-0.00047
1099	0	Correlation	0.60052	0.6005	-2e-05
1113	3	Biased	0.60018	0.60017	-1e-05
1142	10	Unbiased	0.60022	0.59991	-0.00031
1154	10	Biased	0.59982	0.59982	0
1215	50	Unbiased	0.60011	0.60038	0.00027
1222	100	Biased	0.59985	0.59903	-0.00082
1229	50	Unbiased	0.60045	0.6002	-0.00025
1255	3	Unbiased	0.60007	0.6	-7e-05
1331	30	Unbiased	0.60014	0.59968	-0.00046
1359	30	Biased	0.6001	0.59966	-0.00044
1375	30	Unbiased	0.60045	0.60022	-0.00023
1398	30	Biased	0.60039	0.60006	-0.00033
1411	50	Biased	0.59996	0.59924	-0.00072
1465	10	Unbiased	0.60045	0.60037	-8e-05
1474	50	Biased	0.59987	0.59903	-0.00084
1504	50	Biased	0.60031	0.59982	-0.00049
1540	100	Biased	0.60038	0.60009	-0.00029
1554	3	Unbiased	0.59995	0.59988	-7e-05
1662	30	Biased	0.60022	0.60026	4e-05
1679	10	Biased	0.59991	0.59994	3e-05
1697	10	Biased	0.60012	0.60016	4e-05
1703	30	Biased	0.60067	0.60047	-0.0002
1704	10	Unbiased	0.60044	0.60037	-7e-05
1736	30	Biased	0.60007	0.59985	-0.00022
1737	0	Correlation	0.60014	0.60013	-1e-05
1748	0	Correlation	0.59983	0.5998	-3e-05

Test Statistics (V)

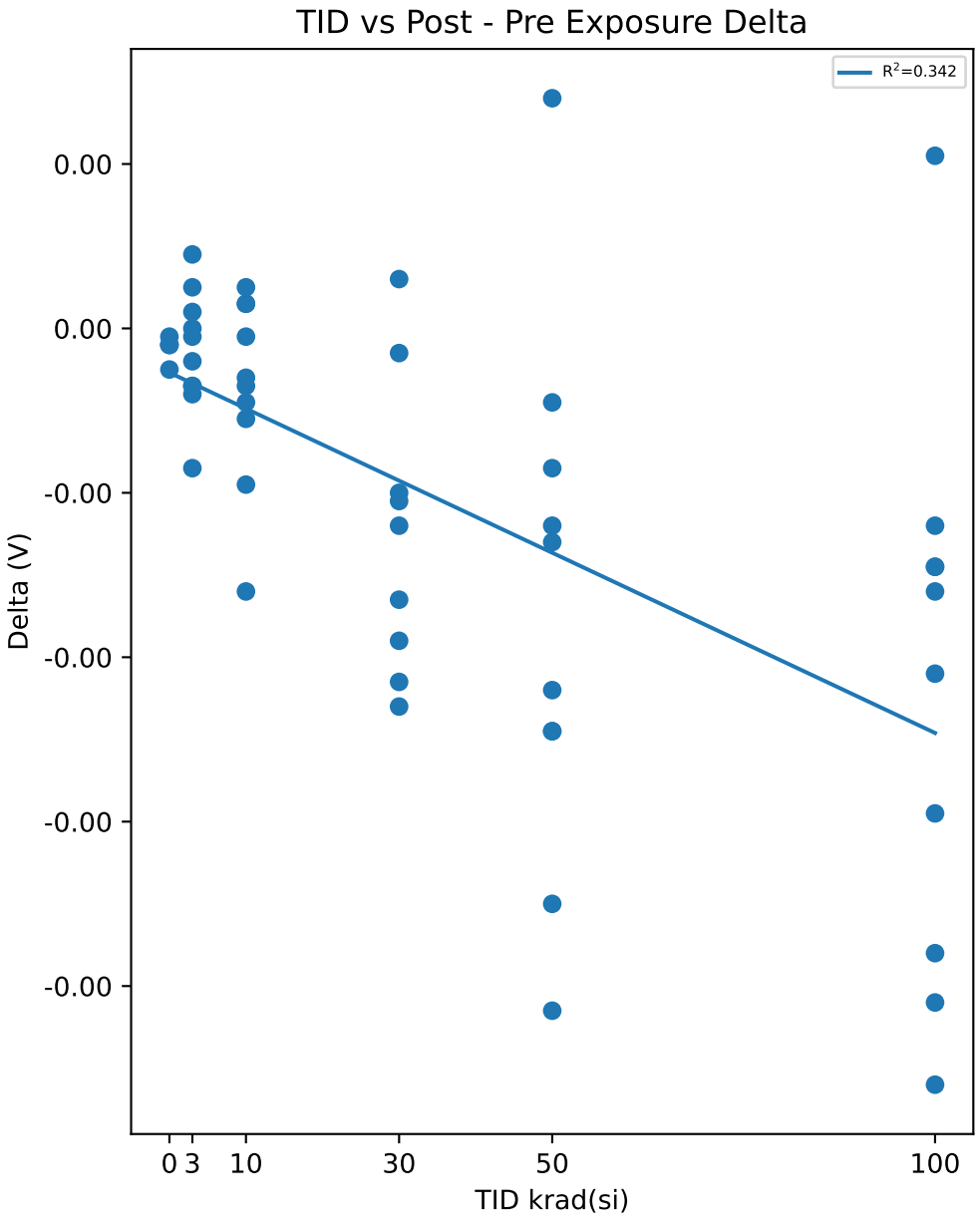
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.59983	0.60027	0.60052	0.00028787	0.5998	0.60024	0.6005	0.00028518	-4e-05	-2.8e-05	-1e-05	1.3038e-05
3	0.59995	0.60022	0.60042	0.00018577	0.59988	0.60019	0.6005	0.00021877	-0.00018	-3.1e-05	8e-05	7.5196e-05
10	0.59982	0.60018	0.60047	0.00023704	0.59982	0.6001	0.60041	0.00022375	-0.00031	-7.7e-05	4e-05	0.0001052
30	0.60007	0.60032	0.60067	0.00020278	0.59966	0.60007	0.60047	0.00030375	-0.00046	-0.00025111	4e-05	0.00017157
50	0.59977	0.60009	0.60045	0.00023796	0.59903	0.59974	0.60038	0.00043347	-0.00084	-0.000341	0.00027	0.0003204
100	0.59985	0.60026	0.60049	0.00019166	0.59903	0.59981	0.60047	0.00043431	-0.00094	-0.000446	0.00021	0.00034086

Device Test: 19.35 VOLTAGE|VREF//12/12/0/1000/5/500kHz//@VREF_25C

TID vs Result Stats



TID vs Post - Pre Exposure Delta



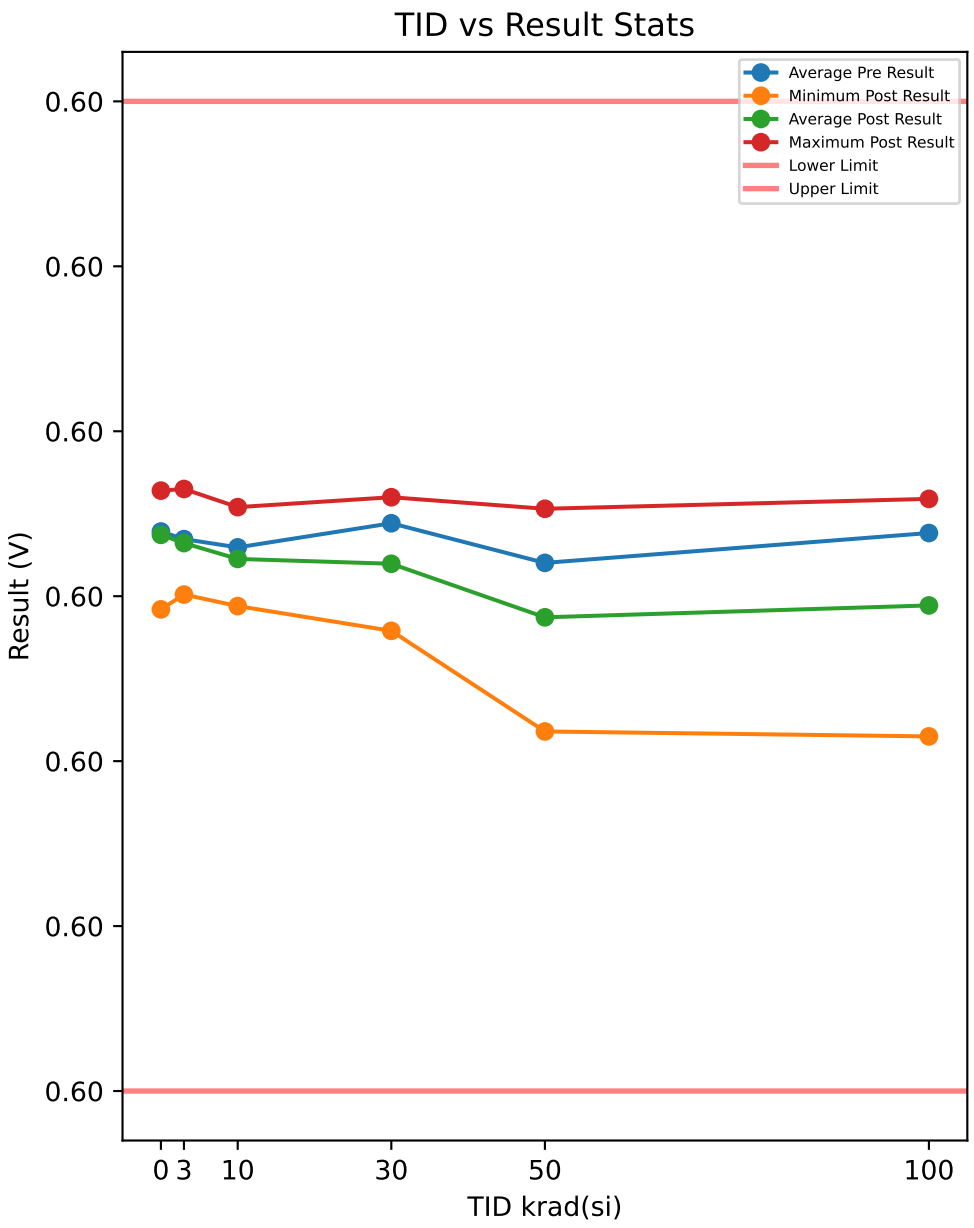
Test Results (Lower Limit = 0.597, Upper Limit = 0.603 (V))

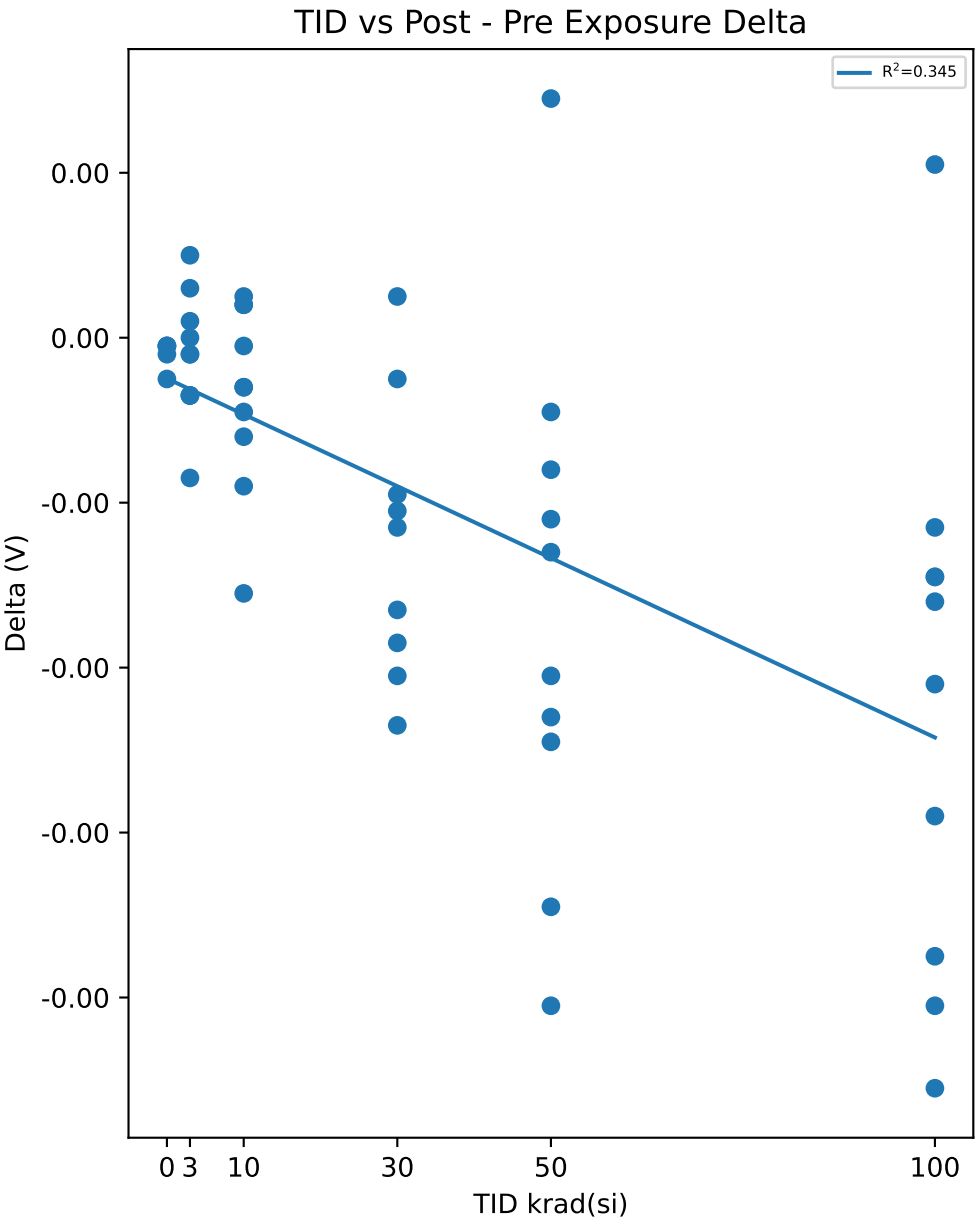
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	0.60018	0.59994	-0.00024
411	100	Unbiased	0.60052	0.59976	-0.00076
444	30	Unbiased	0.60056	0.60053	-3e-05
454	10	Unbiased	0.60038	0.60019	-0.00019
491	3	Unbiased	0.60013	0.60015	2e-05
500	100	Unbiased	0.60039	0.60015	-0.00024
534	100	Biased	0.6002	0.59978	-0.00042
558	0	Correlation	0.60045	0.60043	-2e-05
563	100	Biased	0.6005	0.59991	-0.00059
570	3	Unbiased	0.60047	0.60052	5e-05
614	10	Unbiased	0.60002	0.59991	-0.00011
675	3	Biased	0.6005	0.60059	9e-05
713	100	Unbiased	0.60059	0.60027	-0.00032
744	50	Biased	0.59994	0.59977	-0.00017
799	50	Biased	0.60009	0.6	-9e-05
842	30	Unbiased	0.60045	0.60007	-0.00038
889	3	Unbiased	0.60009	0.60002	-7e-05
901	3	Biased	0.60047	0.6003	-0.00017
930	50	Unbiased	0.60049	0.60005	-0.00044
968	100	Unbiased	0.60034	0.60055	0.00021
976	100	Unbiased	0.60026	0.59997	-0.00029
981	3	Biased	0.60047	0.60046	-1e-05
1003	10	Biased	0.60056	0.60049	-7e-05
1039	3	Biased	0.60043	0.60039	-4e-05
1053	100	Biased	0.60025	0.59933	-0.00092
1056	0	Correlation	0.60056	0.60051	-5e-05
1072	10	Biased	0.60017	0.60016	-1e-05
1095	50	Unbiased	0.59985	0.59936	-0.00049
1099	0	Correlation	0.6006	0.60059	-1e-05
1113	3	Biased	0.60026	0.60026	0
1142	10	Unbiased	0.6003	0.59998	-0.00032
1154	10	Biased	0.59989	0.59992	3e-05
1215	50	Unbiased	0.60019	0.60047	0.00028
1222	100	Biased	0.59992	0.5991	-0.00082
1229	50	Unbiased	0.60052	0.60026	-0.00026
1255	3	Unbiased	0.60014	0.60007	-7e-05
1331	30	Unbiased	0.60022	0.59976	-0.00046
1359	30	Biased	0.60017	0.59974	-0.00043
1375	30	Unbiased	0.60053	0.60029	-0.00024
1398	30	Biased	0.60047	0.60014	-0.00033
1411	50	Biased	0.60003	0.59933	-0.0007
1465	10	Unbiased	0.60051	0.60042	-9e-05
1474	50	Biased	0.59996	0.59913	-0.00083
1504	50	Biased	0.60038	0.59989	-0.00049
1540	100	Biased	0.60044	0.60015	-0.00029
1554	3	Unbiased	0.60004	0.59996	-8e-05
1662	30	Biased	0.60029	0.60035	6e-05
1679	10	Biased	0.59998	0.60001	3e-05
1697	10	Biased	0.60023	0.60028	5e-05
1703	30	Biased	0.60075	0.60054	-0.00021
1704	10	Unbiased	0.60052	0.60046	-6e-05
1736	30	Biased	0.60013	0.59993	-0.0002
1737	0	Correlation	0.60022	0.6002	-2e-05
1748	0	Correlation	0.59989	0.59987	-2e-05

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.59989	0.60034	0.6006	0.00029365	0.59987	0.60032	0.60059	0.00029069	-5e-05	-2.4e-05	-1e-05	1.5166e-05
3	0.60004	0.6003	0.6005	0.00018601	0.59996	0.60027	0.60059	0.00021842	-0.00017	-2.8e-05	9e-05	7.4506e-05
10	0.59989	0.60026	0.60056	0.00023987	0.59991	0.60018	0.60049	0.00022409	-0.00032	-7.4e-05	5e-05	0.00011394
30	0.60013	0.6004	0.60075	0.00020694	0.59974	0.60015	0.60054	0.00030232	-0.00046	-0.00024667	6e-05	0.00017621
50	0.59985	0.60016	0.60052	0.00023438	0.59913	0.59982	0.60047	0.0004283	-0.00083	-0.000343	0.00028	0.00031917
100	0.59992	0.60034	0.60059	0.00019536	0.5991	0.5999	0.60055	0.0004331	-0.00092	-0.000444	0.00021	0.00033695

Device Test: 19.37 VOLTAGE|VREF//14/14/0/1000/5/500kHz//@VREF_25C





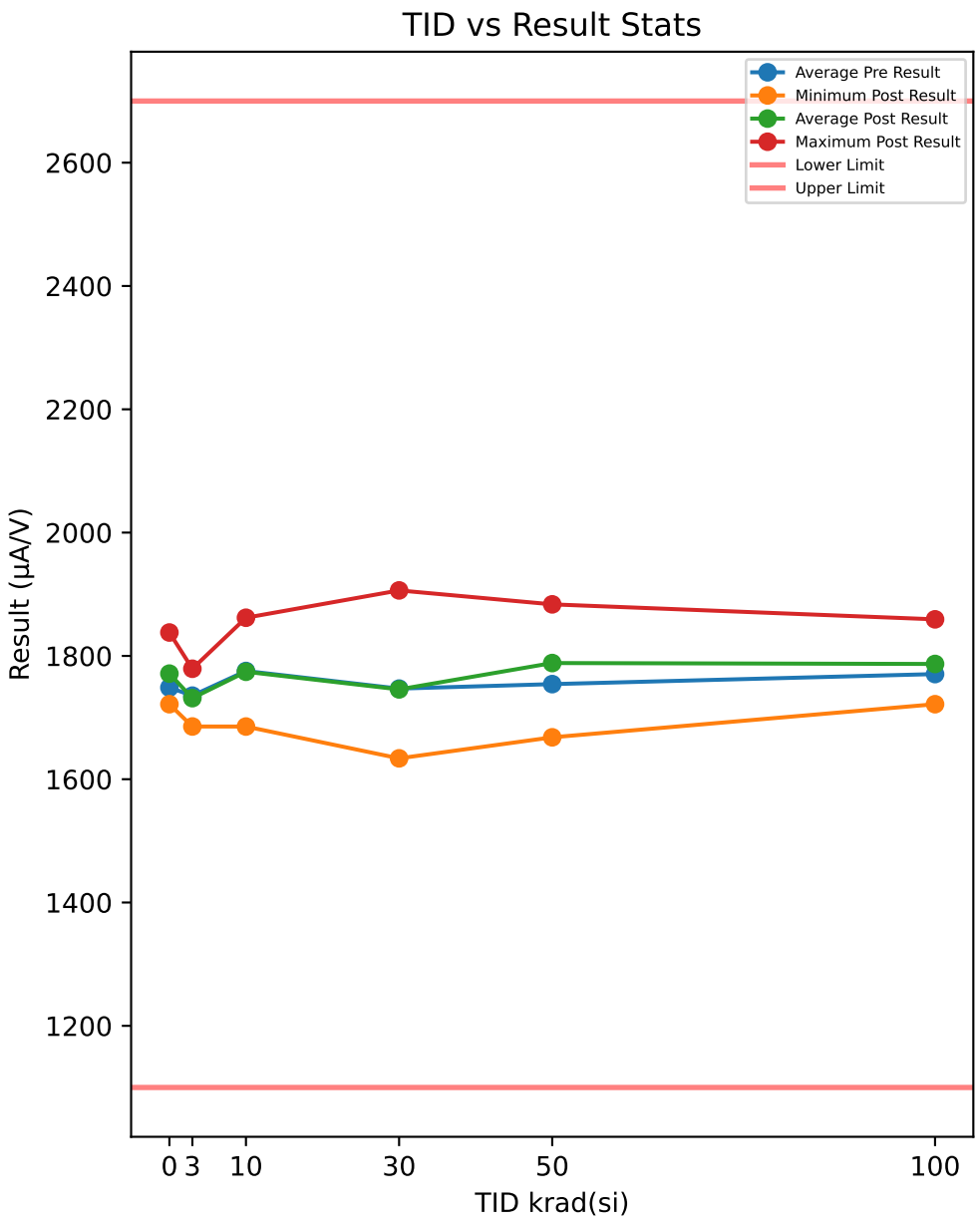
Test Results (Lower Limit = 0.597, Upper Limit = 0.603 (V))

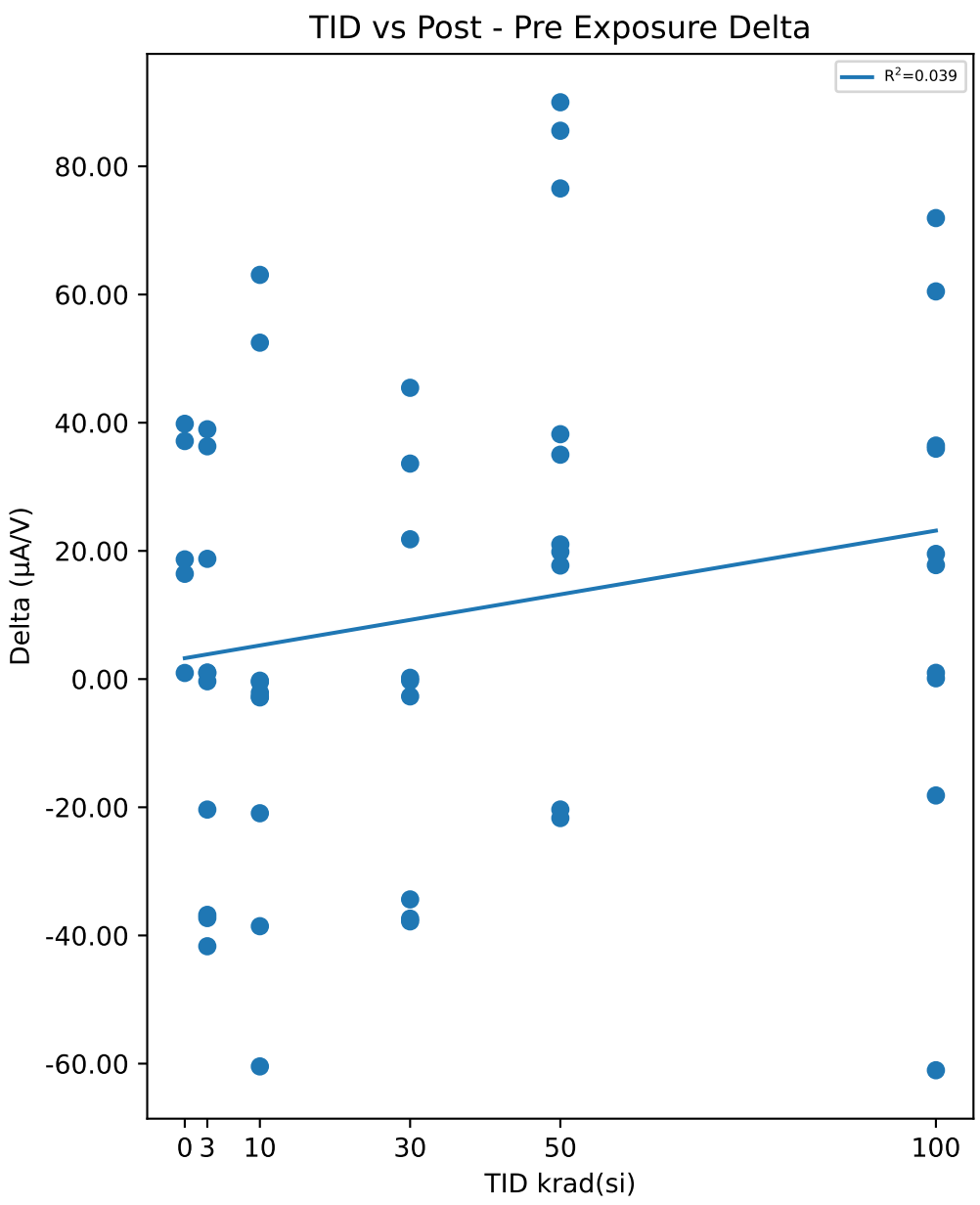
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	0.60022	0.6	-0.00022
411	100	Unbiased	0.60056	0.59981	-0.00075
444	30	Unbiased	0.60062	0.60057	-5e-05
454	10	Unbiased	0.60041	0.60023	-0.00018
491	3	Unbiased	0.60018	0.6002	2e-05
500	100	Unbiased	0.60043	0.6002	-0.00023
534	100	Biased	0.60024	0.59982	-0.00042
558	0	Correlation	0.60049	0.60047	-2e-05
563	100	Biased	0.60054	0.59996	-0.00058
570	3	Unbiased	0.60051	0.60057	6e-05
614	10	Unbiased	0.60006	0.59994	-0.00012
675	3	Biased	0.60055	0.60065	0.0001
713	100	Unbiased	0.60065	0.60033	-0.00032
744	50	Biased	0.59997	0.59981	-0.00016
799	50	Biased	0.60013	0.60004	-9e-05
842	30	Unbiased	0.60049	0.60012	-0.00037
889	3	Unbiased	0.60014	0.60007	-7e-05
901	3	Biased	0.60052	0.60035	-0.00017
930	50	Unbiased	0.60052	0.60011	-0.00041
968	100	Unbiased	0.60038	0.60059	0.00021
976	100	Unbiased	0.60031	0.60002	-0.00029
981	3	Biased	0.60052	0.6005	-2e-05
1003	10	Biased	0.6006	0.60054	-6e-05
1039	3	Biased	0.60046	0.60044	-2e-05
1053	100	Biased	0.60028	0.59937	-0.00091
1056	0	Correlation	0.60062	0.60057	-5e-05
1072	10	Biased	0.60022	0.60021	-1e-05
1095	50	Unbiased	0.5999	0.59941	-0.00049
1099	0	Correlation	0.60065	0.60064	-1e-05
1113	3	Biased	0.60031	0.60031	0
1142	10	Unbiased	0.60033	0.60002	-0.00031
1154	10	Biased	0.59993	0.59997	4e-05
1215	50	Unbiased	0.60024	0.60053	0.00029
1222	100	Biased	0.59996	0.59915	-0.00081
1229	50	Unbiased	0.60056	0.6003	-0.00026
1255	3	Unbiased	0.60019	0.60012	-7e-05
1331	30	Unbiased	0.60028	0.59981	-0.00047
1359	30	Biased	0.6002	0.59979	-0.00041
1375	30	Unbiased	0.60057	0.60034	-0.00023
1398	30	Biased	0.60052	0.60019	-0.00033
1411	50	Biased	0.60008	0.59939	-0.00069
1465	10	Unbiased	0.60055	0.60046	-9e-05
1474	50	Biased	0.59999	0.59918	-0.00081
1504	50	Biased	0.60041	0.59995	-0.00046
1540	100	Biased	0.60048	0.60019	-0.00029
1554	3	Unbiased	0.60008	0.60001	-7e-05
1662	30	Biased	0.60033	0.60038	5e-05
1679	10	Biased	0.60002	0.60006	4e-05
1697	10	Biased	0.60028	0.60033	5e-05
1703	30	Biased	0.60079	0.6006	-0.00019
1704	10	Unbiased	0.60056	0.6005	-6e-05
1736	30	Biased	0.60018	0.59997	-0.00021
1737	0	Correlation	0.60027	0.60026	-1e-05
1748	0	Correlation	0.59993	0.59992	-1e-05

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.59993	0.60039	0.60065	0.00029853	0.59992	0.60037	0.60064	0.00029047	-5e-05	-2e-05	-1e-05	1.7321e-05
3	0.60008	0.60035	0.60055	0.00018512	0.60001	0.60032	0.60065	0.00021913	-0.00017	-2.4e-05	0.0001	7.6478e-05
10	0.59993	0.6003	0.6006	0.00023866	0.59994	0.60023	0.60054	0.0002253	-0.00031	-7e-05	5e-05	0.00011304
30	0.60018	0.60044	0.60079	0.00020723	0.59979	0.6002	0.6006	0.00030174	-0.00047	-0.00024556	5e-05	0.00016964
50	0.5999	0.6002	0.60056	0.00023199	0.59918	0.59987	0.60053	0.00042843	-0.00081	-0.00033	0.00029	0.00031567
100	0.59996	0.60038	0.60065	0.00019839	0.59915	0.59994	0.60059	0.00043354	-0.00091	-0.000439	0.00021	0.00033331

Device Test: 19.39 LEVEL|TRANSCONDUCTANCE//8/8/0/0/5/500kHz//@EA_GM





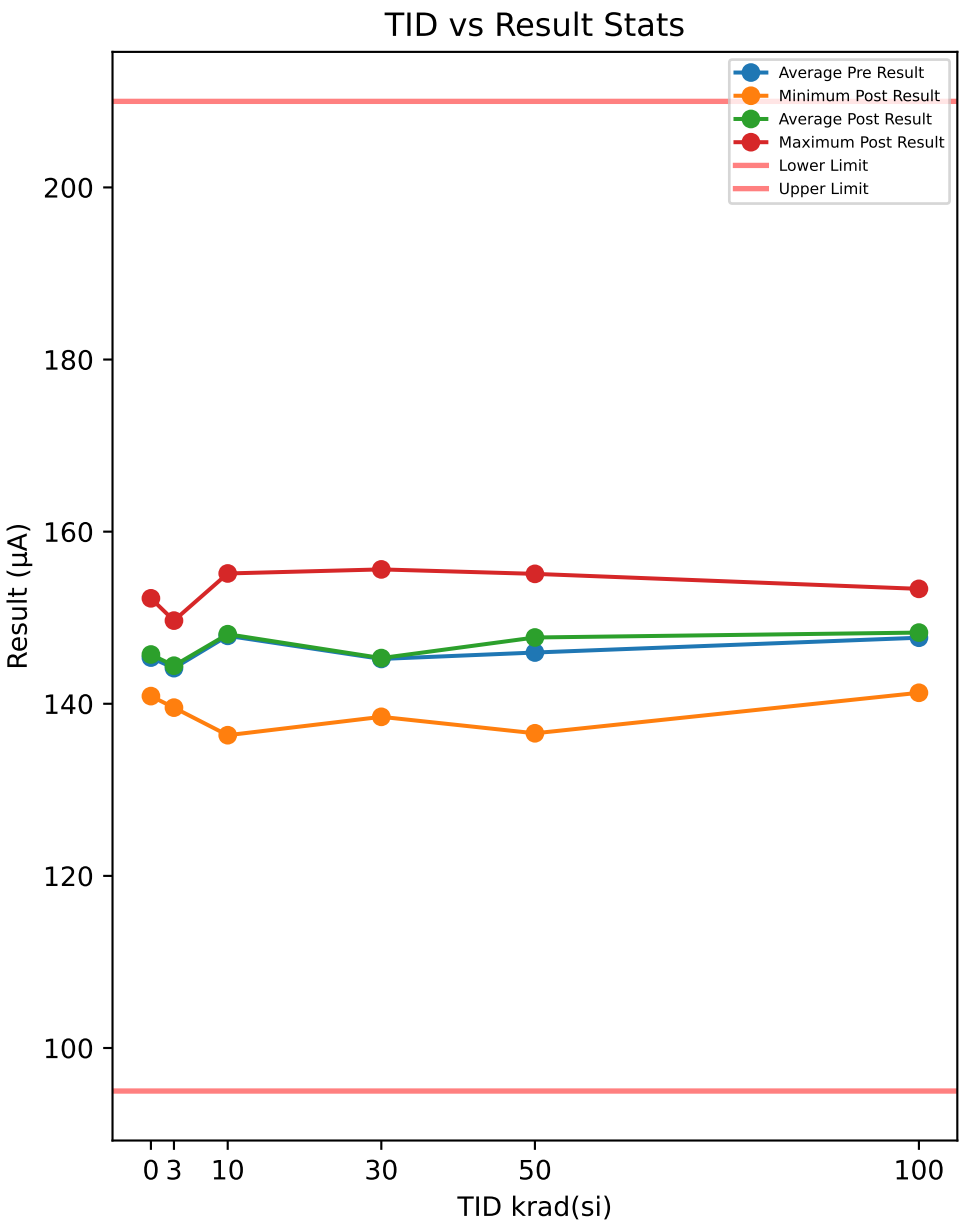
Test Results (Lower Limit = 1100.0, Upper Limit = 2700.0 (µA/V))

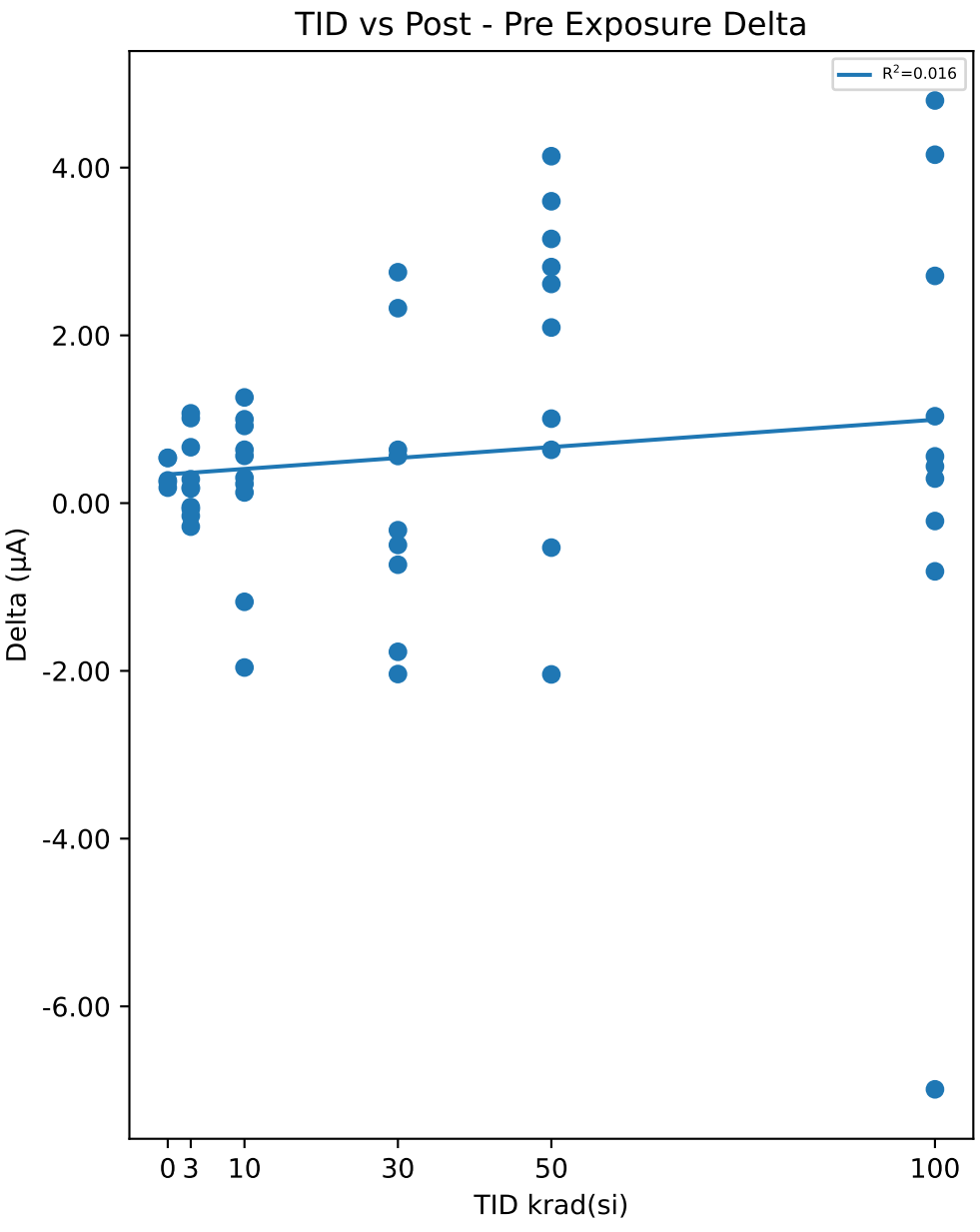
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	1759.3	1779.2	19.851
411	100	Unbiased	1685.2	1721.7	36.43
444	30	Unbiased	1668.2	1633.8	-34.376
454	10	Unbiased	1779.4	1776.7	-2.7419
491	3	Unbiased	1798.9	1757.2	-41.685
500	100	Unbiased	1685.2	1757.2	71.926
534	100	Biased	1740.7	1776.7	35.947
558	0	Correlation	1819.3	1838	18.675
563	100	Biased	1779.4	1799	19.528
570	3	Unbiased	1684.5	1703.3	18.761
614	10	Unbiased	1839.4	1779	-60.433
675	3	Biased	1740.2	1779.2	38.975
713	100	Unbiased	1758.6	1740.4	-18.16
744	50	Biased	1778.9	1817.1	38.205
799	50	Biased	1702.4	1779	76.548
842	30	Unbiased	1740.2	1740.4	0.1986
889	3	Unbiased	1758.6	1721.8	-36.789
901	3	Biased	1703.7	1703.4	-0.3459
930	50	Unbiased	1819.3	1840.3	21.014
968	100	Unbiased	1778.9	1796.7	17.783
976	100	Unbiased	1798.1	1799	0.9737
981	3	Biased	1778.1	1779.1	0.971
1003	10	Biased	1721.5	1719.4	-2.1171
1039	3	Biased	1740.7	1703.5	-37.284
1053	100	Biased	1840.2	1779.2	-61.032
1056	0	Correlation	1740.7	1757.2	16.427
1072	10	Biased	1840.8	1840.3	-0.4644
1095	50	Unbiased	1739.4	1757.2	17.717
1099	0	Correlation	1703.2	1740.3	37.136
1113	3	Biased	1684.5	1685.5	1.0154
1142	10	Unbiased	1862.2	1859.3	-2.8584
1154	10	Biased	1779.4	1779.2	-0.2547
1215	50	Unbiased	1862.2	1840.5	-21.685
1222	100	Biased	1840.2	1840.3	0.1211
1229	50	Unbiased	1798.1	1883.6	85.554
1255	3	Unbiased	1799.4	1779.1	-20.359
1331	30	Unbiased	1634.2	1667.8	33.619
1359	30	Biased	1722	1721.8	-0.2474
1375	30	Unbiased	1740.7	1703.4	-37.38
1398	30	Biased	1759.9	1757.2	-2.7003
1411	50	Biased	1650.5	1740.5	89.995
1465	10	Unbiased	1778.9	1740.3	-38.556
1474	50	Biased	1632.9	1668	35.009
1504	50	Biased	1799.4	1779.1	-20.35
1540	100	Biased	1798.8	1859.3	60.485
1554	3	Unbiased	1667	1703.3	36.318
1662	30	Biased	1860.8	1906.2	45.446
1679	10	Biased	1722	1701.1	-20.935
1697	10	Biased	1632.9	1685.4	52.486
1703	30	Biased	1818.5	1840.3	21.813
1704	10	Unbiased	1798.8	1861.9	63.064
1736	30	Biased	1778.1	1740.3	-37.802
1737	0	Correlation	1720.7	1721.7	0.9535
1748	0	Correlation	1759.3	1799.1	39.827

Test Statistics (µA/V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1703.2	1748.6	1819.3	44.763	1721.7	1771.3	1838	47.017	0.9535	22.604	39.827	16.048
3	1667	1735.6	1799.4	48.765	1685.5	1731.5	1779.2	37.764	-41.685	-4.0423	38.975	29.673
10	1632.9	1775.5	1862.2	68.756	1685.4	1774.3	1861.9	63.897	-60.433	-1.281	63.064	36.988
30	1634.2	1747	1860.8	69.681	1633.8	1745.7	1906.2	83.565	-37.802	-1.2699	45.446	30.968
50	1632.9	1754.2	1862.2	73.681	1668	1788.4	1883.6	60.863	-21.685	34.186	89.995	39.876
100	1685.2	1770.5	1840.2	54.766	1721.7	1786.9	1859.3	42.102	-61.032	16.4	71.926	38.751

Device Test: 19.40 CURRENT|EA_SOURCE//8/8/0/0/5/500kHz//@EA_I_SOURCE





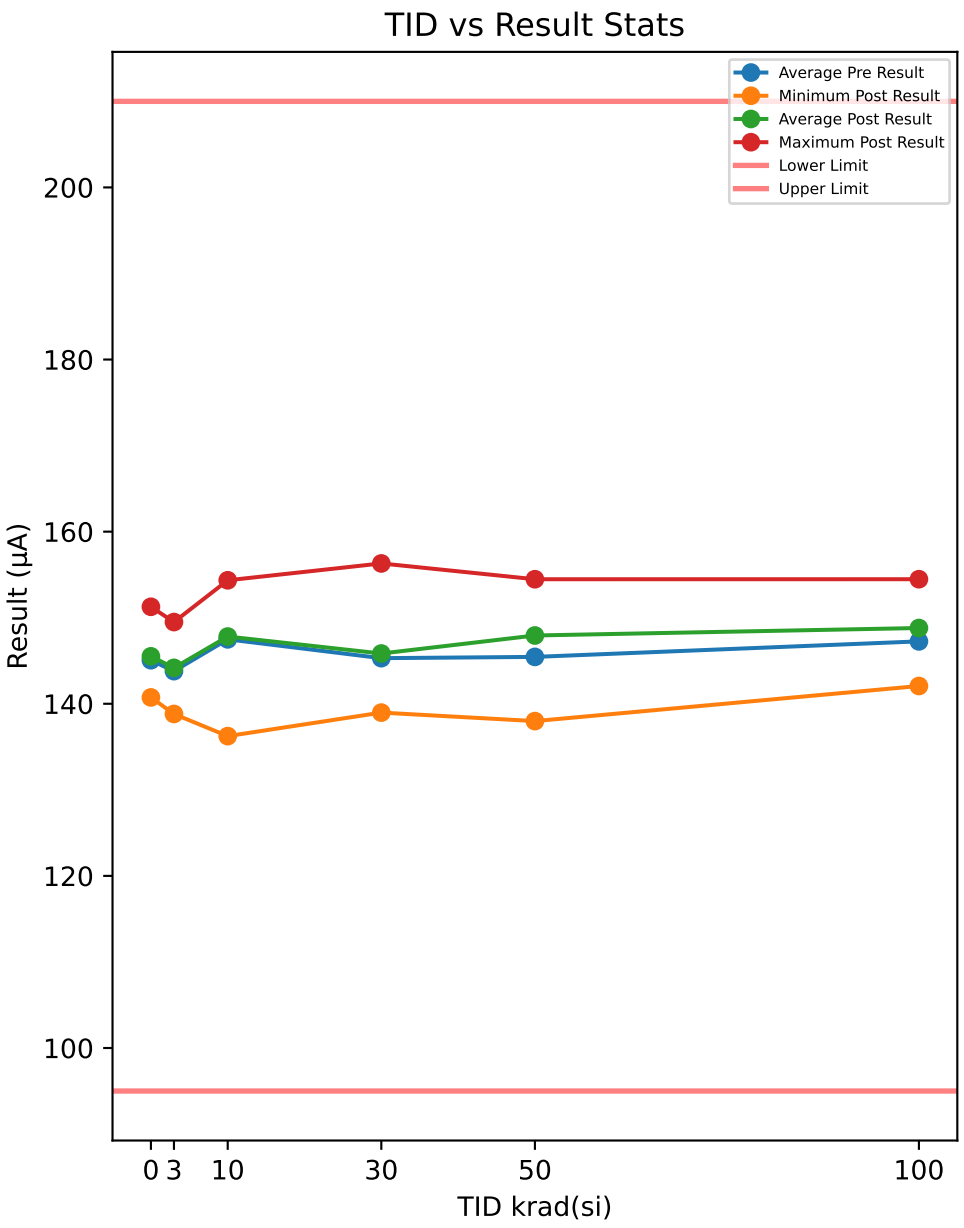
Test Results (Lower Limit = 95.0, Upper Limit = 210.0 (µA))

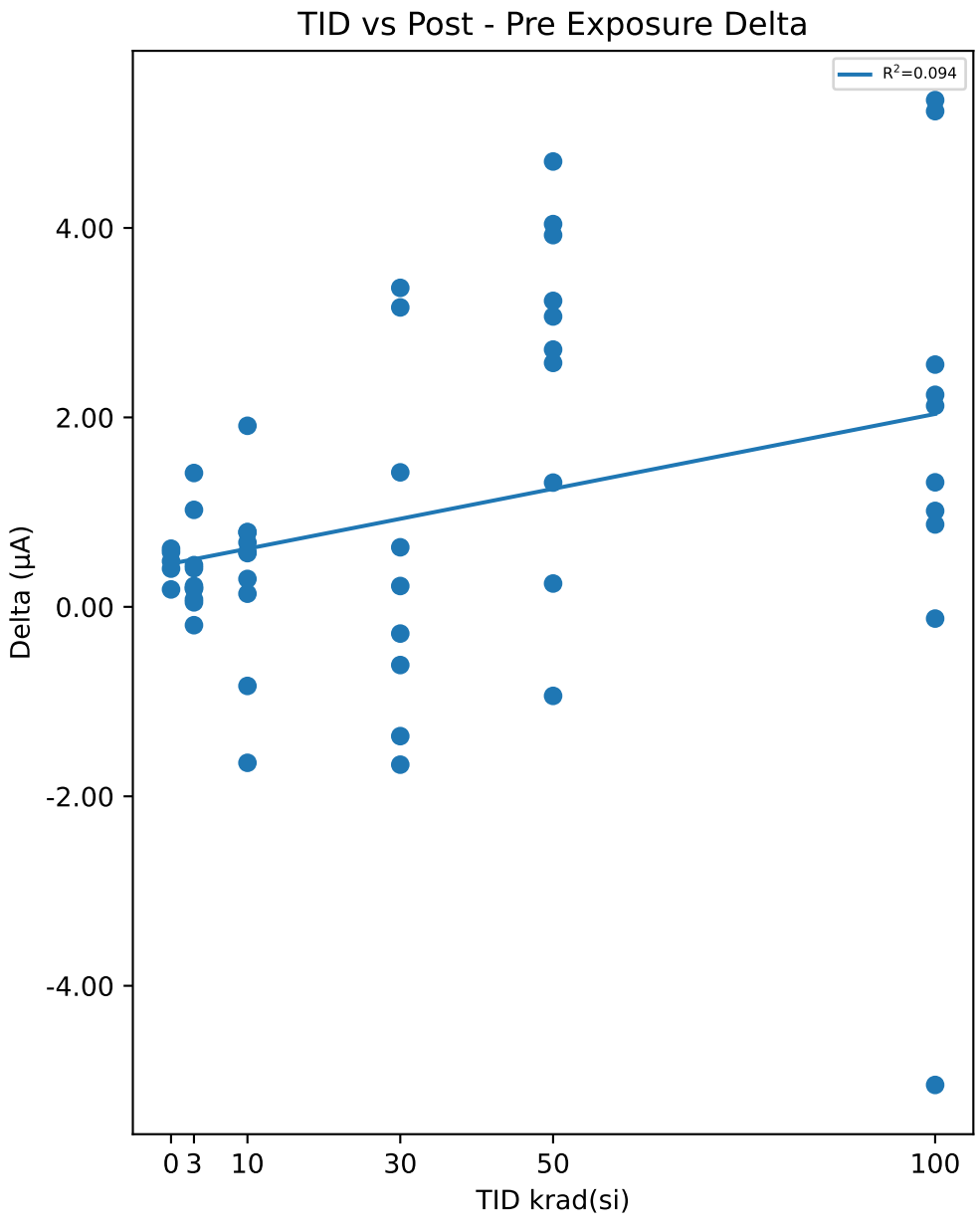
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	148.66	148.13	-0.5305
411	100	Unbiased	140.84	141.28	0.4383
444	30	Unbiased	137.85	138.48	0.6359
454	10	Unbiased	150.32	149.14	-1.1767
491	3	Unbiased	146.84	147.86	1.0135
500	100	Unbiased	143.29	143.58	0.2926
534	100	Biased	142.7	142.48	-0.2135
558	0	Correlation	151.71	152.25	0.5402
563	100	Biased	150.07	151.1	1.036
570	3	Unbiased	141.53	141.71	0.1741
614	10	Unbiased	154.16	152.2	-1.9601
675	3	Biased	147.94	147.79	-0.1533
713	100	Unbiased	143.64	148.44	4.8003
744	50	Biased	145.8	148.96	3.1501
799	50	Biased	142.38	145.2	2.8144
842	30	Unbiased	143.95	144.51	0.5619
889	3	Unbiased	144.08	144.36	0.2853
901	3	Biased	139.83	139.55	-0.2807
930	50	Unbiased	151.93	154.03	2.0937
968	100	Unbiased	149.04	151.75	2.709
976	100	Unbiased	150.02	150.57	0.5576
981	3	Biased	147.72	147.65	-0.0696
1003	10	Biased	144.52	144.75	0.2292
1039	3	Biased	144.3	144.49	0.1854
1053	100	Biased	150.68	149.86	-0.8135
1056	0	Correlation	144.84	145.09	0.2519
1072	10	Biased	149	149.12	0.127
1095	50	Unbiased	146.06	146.69	0.6356
1099	0	Correlation	140.62	140.89	0.2708
1113	3	Biased	140.53	141.6	1.0705
1142	10	Unbiased	153.56	154.2	0.6365
1154	10	Biased	145.47	146.47	0.9996
1215	50	Unbiased	149.28	152.88	3.5987
1222	100	Biased	157.28	150.29	-6.9891
1229	50	Unbiased	150.96	155.1	4.1362
1255	3	Unbiased	149	149.66	0.6662
1331	30	Unbiased	139.48	139.16	-0.3228
1359	30	Biased	143.55	145.87	2.3241
1375	30	Unbiased	144.62	143.88	-0.7343
1398	30	Biased	143.55	141.51	-2.0378
1411	50	Biased	137.41	140.03	2.6132
1465	10	Unbiased	150.61	150.92	0.3023
1474	50	Biased	135.56	136.57	1.0071
1504	50	Biased	151.49	149.44	-2.0421
1540	100	Biased	149.2	153.35	4.1539
1554	3	Unbiased	139.62	139.57	-0.0463
1662	30	Biased	156.11	155.61	-0.4989
1679	10	Biased	141.63	142.55	0.9203
1697	10	Biased	135.78	136.35	0.5636
1703	30	Biased	148.89	151.64	2.7529
1704	10	Unbiased	153.88	155.14	1.2601
1736	30	Biased	148.89	147.11	-1.7727
1737	0	Correlation	141.91	142.09	0.1841
1748	0	Correlation	147.75	148.29	0.5381

Test Statistics (µA)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	140.62	145.37	151.71	4.4928	140.89	145.72	152.25	4.6414	0.1841	0.35702	0.5402	0.16936
3	139.62	144.14	149	3.607	139.55	144.42	149.66	3.7069	-0.2807	0.28451	1.0705	0.47876
10	135.78	147.89	154.16	6.01	136.35	148.08	155.14	5.7409	-1.9601	0.19018	1.2601	1.01
30	137.85	145.21	156.11	5.4812	138.48	145.31	155.61	5.6048	-2.0378	0.10092	2.7529	1.6506
50	135.56	145.95	151.93	5.8074	136.57	147.7	155.1	5.9291	-2.0421	1.7476	4.1362	1.9563
100	140.84	147.67	157.28	4.9846	141.28	148.27	153.35	4.2462	-6.9891	0.59716	4.8003	3.2538

Device Test: 19.41 CURRENT|EA_SINK//8/8/0/0/5/500kHz//@EA_I_SINK





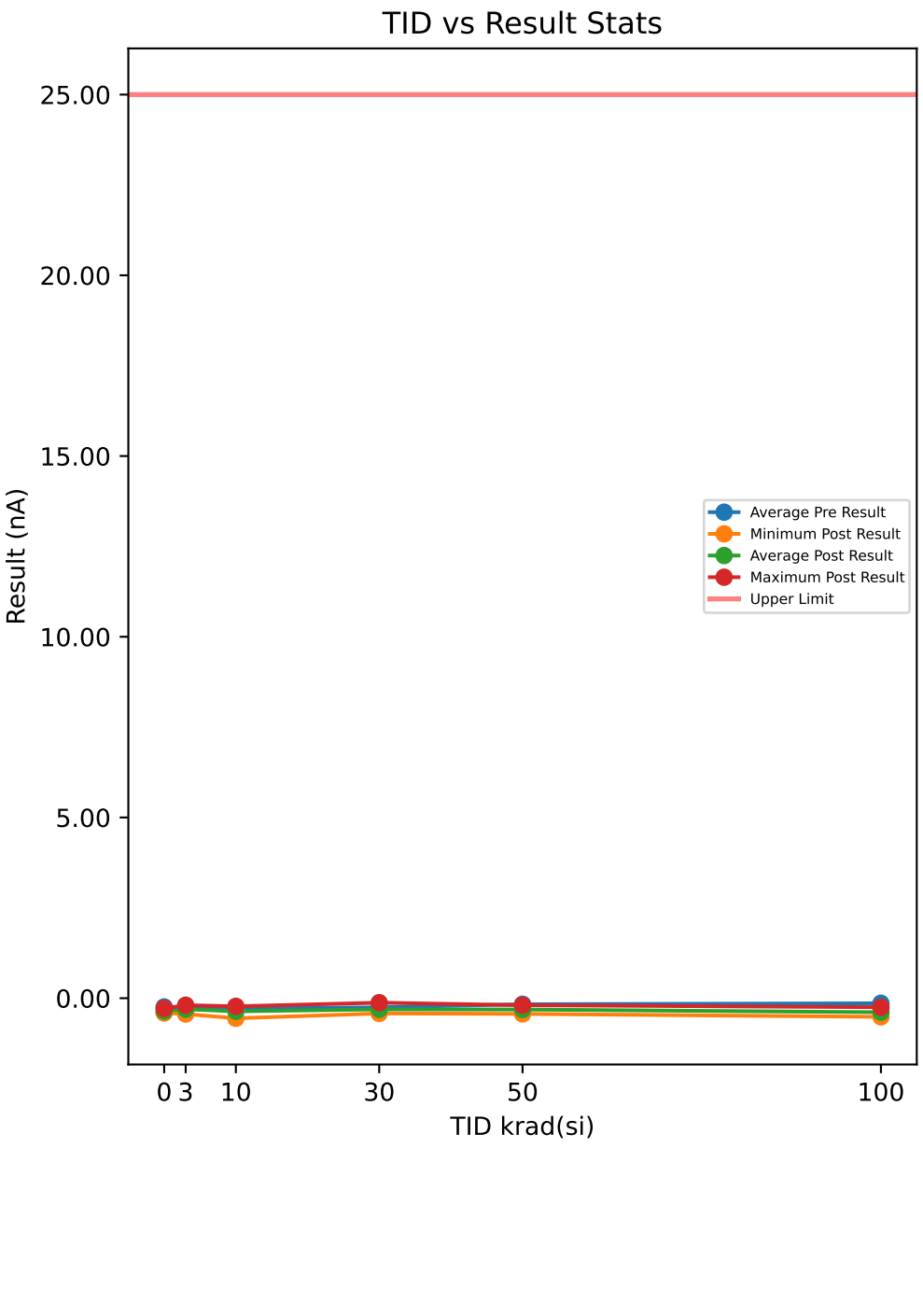
Test Results (Lower Limit = 95.0, Upper Limit = 210.0 (µA))

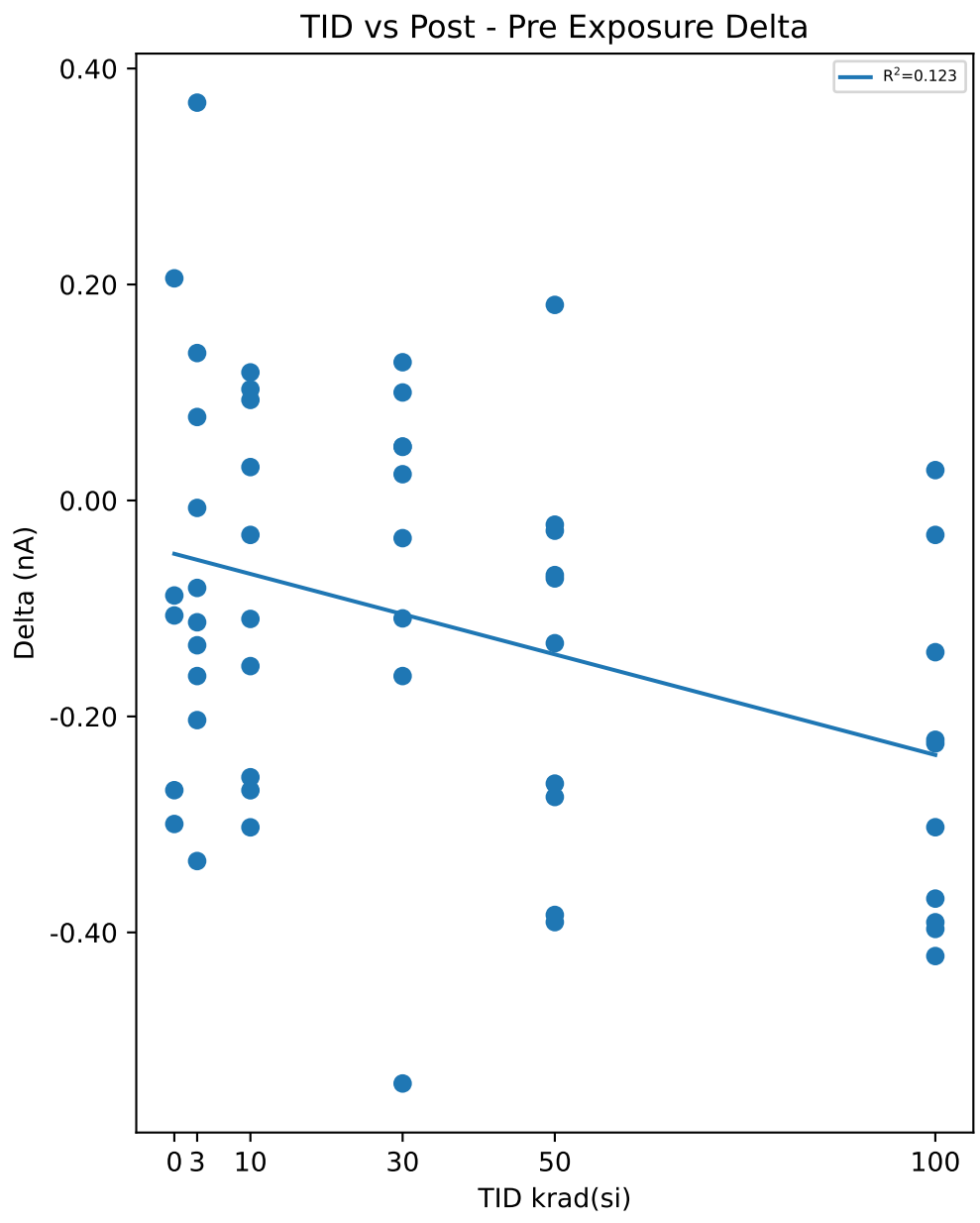
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	147.8	148.04	0.2464
411	100	Unbiased	139.94	142.18	2.2388
444	30	Unbiased	138.34	138.97	0.6288
454	10	Unbiased	149.97	149.13	-0.8347
491	3	Unbiased	147.73	148.76	1.024
500	100	Unbiased	141.2	142.07	0.8698
534	100	Biased	142.63	142.51	-0.1237
558	0	Correlation	150.66	151.27	0.6143
563	100	Biased	148.71	151.27	2.5575
570	3	Unbiased	140.38	140.42	0.0477
614	10	Unbiased	153.95	152.3	-1.6463
675	3	Biased	146.98	146.78	-0.1935
713	100	Unbiased	143.42	148.77	5.3497
744	50	Biased	145.69	149.73	4.0406
799	50	Biased	142.17	145.23	3.0652
842	30	Unbiased	143.43	144.85	1.4199
889	3	Unbiased	143.96	144.37	0.4078
901	3	Biased	138.6	138.82	0.2197
930	50	Unbiased	150.47	153.18	2.716
968	100	Unbiased	149.71	151.84	2.1226
976	100	Unbiased	149.24	150.25	1.013
981	3	Biased	147.85	148.05	0.1969
1003	10	Biased	144.28	144.96	0.68
1039	3	Biased	144.61	144.81	0.1919
1053	100	Biased	149.81	151.12	1.3146
1056	0	Correlation	145.02	145.21	0.1839
1072	10	Biased	148.65	148.94	0.2948
1095	50	Unbiased	147.04	148.35	1.3116
1099	0	Correlation	140.16	140.74	0.5789
1113	3	Biased	139.68	141.1	1.413
1142	10	Unbiased	153.56	154.35	0.789
1154	10	Biased	145.09	145.87	0.7878
1215	50	Unbiased	148.74	151.97	3.2301
1222	100	Biased	158.61	153.56	-5.0467
1229	50	Unbiased	149.77	154.47	4.7012
1255	3	Unbiased	149.05	149.5	0.4405
1331	30	Unbiased	140.05	140.27	0.2201
1359	30	Biased	143.89	147.26	3.3674
1375	30	Unbiased	144.55	143.94	-0.6142
1398	30	Biased	143.67	142	-1.6657
1411	50	Biased	138.96	142.89	3.9241
1465	10	Unbiased	149.05	149.19	0.1389
1474	50	Biased	135.41	137.99	2.5752
1504	50	Biased	148.43	147.49	-0.9397
1540	100	Biased	149.24	154.47	5.2327
1554	3	Unbiased	139.06	139.13	0.0788
1662	30	Biased	156.59	156.31	-0.2821
1679	10	Biased	142.69	143.26	0.5672
1697	10	Biased	135.66	136.24	0.5789
1703	30	Biased	148.01	151.17	3.1608
1704	10	Unbiased	151.98	153.89	1.9114
1736	30	Biased	149.17	147.81	-1.3645
1737	0	Correlation	141.51	141.99	0.4822
1748	0	Correlation	147.95	148.36	0.4035

Test Statistics (µA)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	140.16	145.06	150.66	4.3683	140.74	145.51	151.27	4.3744	0.1839	0.45256	0.6143	0.17145
3	138.6	143.79	149.05	4.0627	138.82	144.17	149.5	4.072	-0.1935	0.38268	1.413	0.48429
10	135.66	147.49	153.95	5.6532	136.24	147.81	154.35	5.4899	-1.6463	0.3267	1.9114	0.96964
30	138.34	145.3	156.59	5.4139	138.97	145.84	156.31	5.4933	-1.6657	0.54117	3.3674	1.8113
50	135.41	145.45	150.47	5.0024	137.99	147.93	154.47	4.9656	-0.9397	2.4871	4.7012	1.7787
100	139.94	147.25	158.61	5.555	142.07	148.8	154.47	4.7897	-5.0467	1.5528	5.3497	2.9239

Device Test: 19.42 CURRENT|EA//8/8/0/0/5/500kHz//@EA_IB





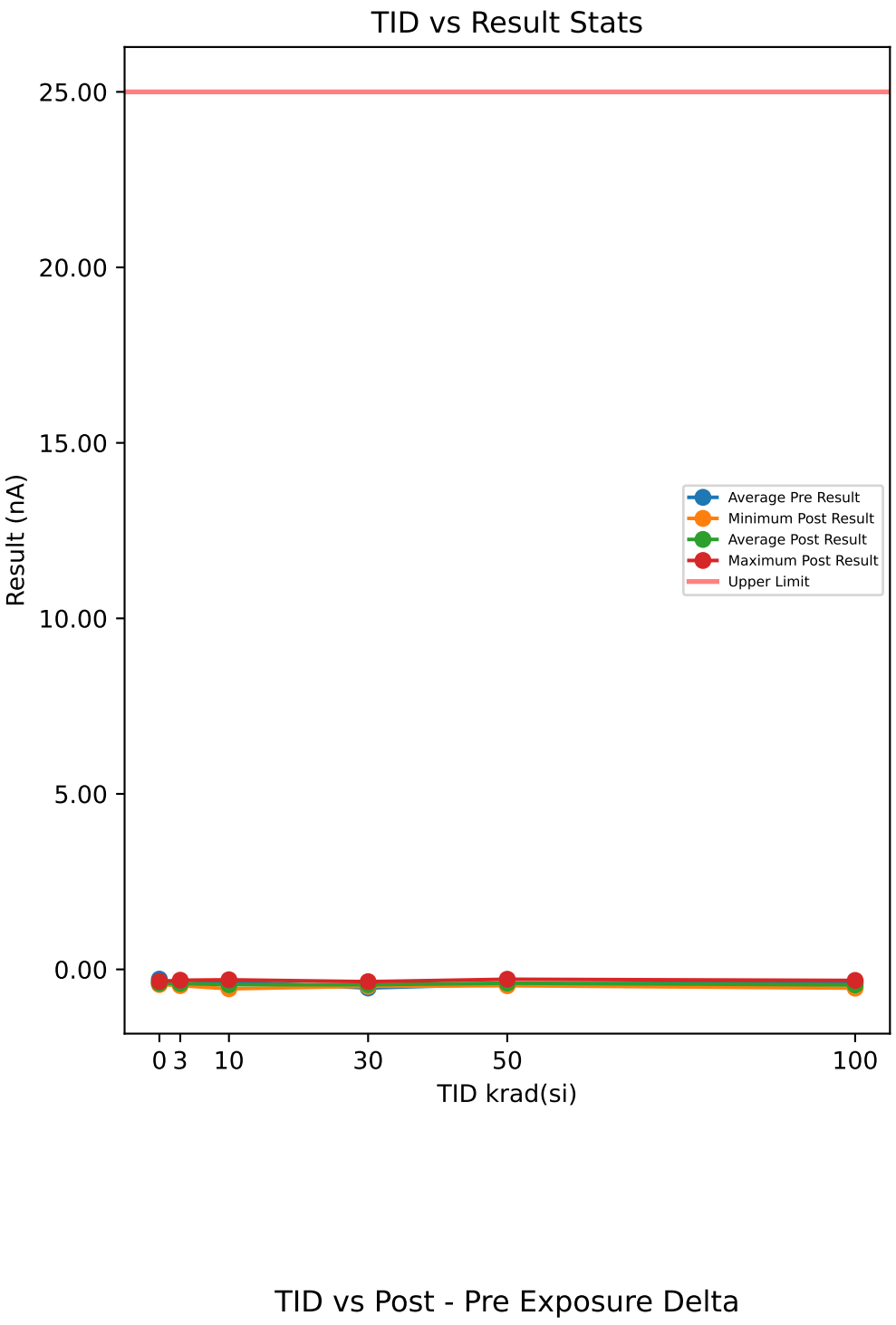
Test Results (Upper Limit = 25.0 (nA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	0.0593	-0.3245	-0.3838
411	100	Unbiased	-0.2184	-0.3589	-0.1405
444	30	Unbiased	-0.4183	-0.3183	0.1
454	10	Unbiased	-0.3777	-0.5311	-0.1534
491	3	Unbiased	-0.234	-0.4374	-0.2034
500	100	Unbiased	-0.0562	-0.4249	-0.3687
534	100	Biased	-0.1061	-0.4967	-0.3906
558	0	Correlation	-0.2746	-0.3811	-0.1065
563	100	Biased	-0.2778	-0.2497	0.0281
570	3	Unbiased	-0.33	-0.1935	0.1365
614	10	Unbiased	-0.1899	-0.2996	-0.1097
675	3	Biased	0.0125	-0.3214	-0.3339
713	100	Unbiased	-0.1744	-0.3994	-0.225
744	50	Biased	-0.0437	-0.4342	-0.3905
799	50	Biased	-0.2522	-0.2746	-0.0224
842	30	Unbiased	0.1186	-0.4213	-0.5399
889	3	Unbiased	-0.2833	-0.2902	-0.0069
901	3	Biased	-0.1998	-0.3339	-0.1341
930	50	Unbiased	0.0062	-0.2684	-0.2746
968	100	Unbiased	-0.0281	-0.4249	-0.3968
976	100	Unbiased	-0.3176	-0.3495	-0.0319
981	3	Biased	-0.2211	-0.3339	-0.1128
1003	10	Biased	-0.1373	-0.3936	-0.2563
1039	3	Biased	-0.2154	-0.2964	-0.081
1053	100	Biased	-0.0562	-0.3588	-0.3026
1056	0	Correlation	-0.6149	-0.4092	0.2057
1072	10	Biased	-0.3683	-0.2653	0.103
1095	50	Unbiased	-0.2958	-0.428	-0.1322
1099	0	Correlation	0.0156	-0.284	-0.2996
1113	3	Biased	-0.1993	-0.3619	-0.1626
1142	10	Unbiased	-0.4058	-0.3749	0.0309
1154	10	Biased	-0.3433	-0.2247	0.1186
1215	50	Unbiased	-0.4838	-0.3027	0.1811
1222	100	Biased	-0.0811	-0.3027	-0.2216
1229	50	Unbiased	-0.1712	-0.2403	-0.0691
1255	3	Unbiased	-0.6274	-0.259	0.3684
1331	30	Unbiased	-0.1748	-0.1248	0.05
1359	30	Biased	-0.4463	-0.3183	0.128
1375	30	Unbiased	-0.2341	-0.3433	-0.1092
1398	30	Biased	-0.4713	-0.4217	0.0496
1411	50	Biased	0.0687	-0.1935	-0.2622
1465	10	Unbiased	0.0062	-0.2622	-0.2684
1474	50	Biased	-0.2273	-0.2995	-0.0722
1504	50	Biased	-0.3402	-0.3682	-0.028
1540	100	Biased	-0.0936	-0.5155	-0.4219
1554	3	Unbiased	-0.302	-0.2247	0.0773
1662	30	Biased	-0.2397	-0.2746	-0.0349
1679	10	Biased	-0.6492	-0.5561	0.0931
1697	10	Biased	-0.3363	-0.3682	-0.0319
1703	30	Biased	-0.137	-0.2996	-0.1626
1704	10	Unbiased	-0.0499	-0.3526	-0.3027
1736	30	Biased	-0.2833	-0.259	0.0243
1737	0	Correlation	-0.2802	-0.3682	-0.088
1748	0	Correlation	-0.0593	-0.3276	-0.2683

Test Statistics (nA)

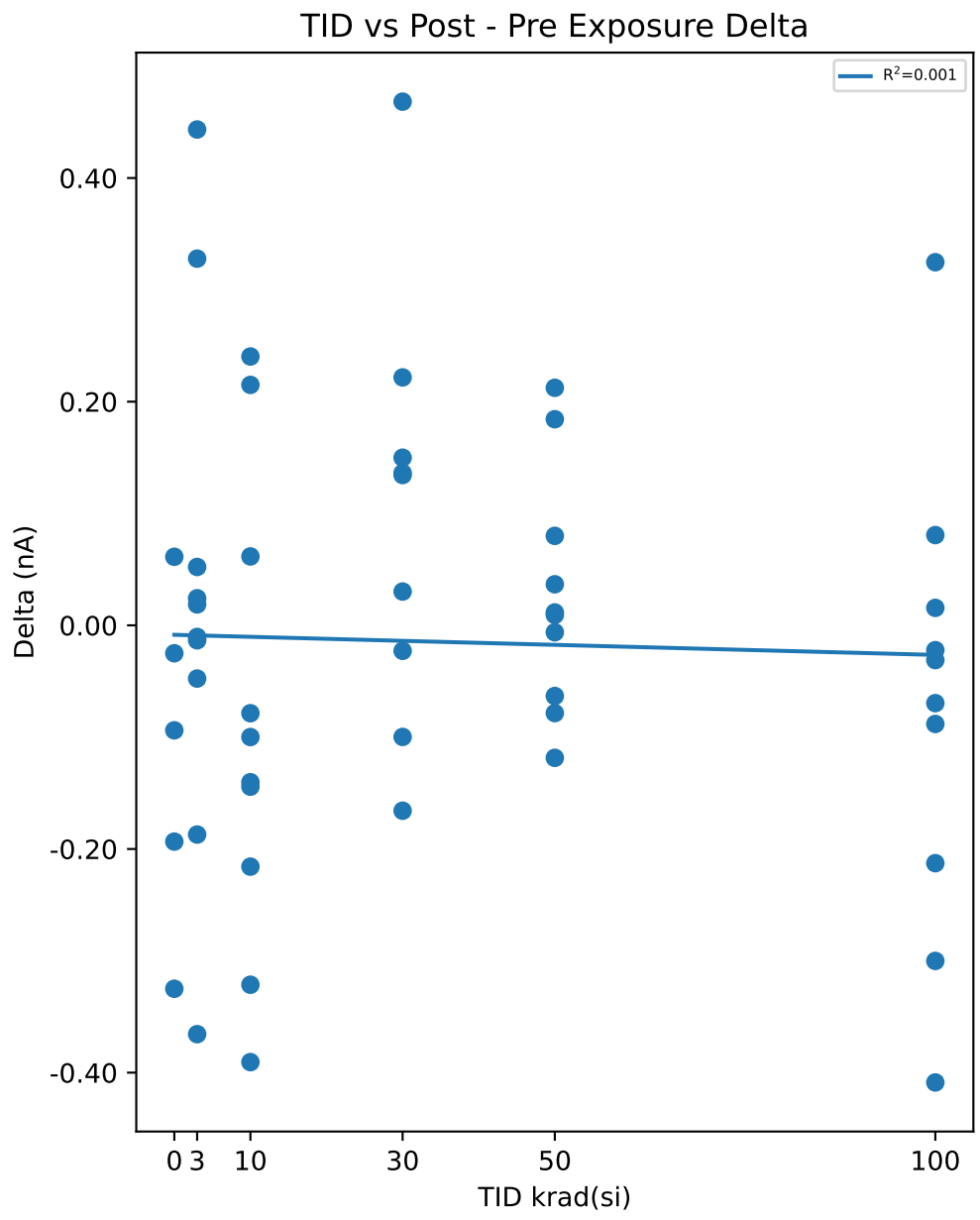
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.6149	-0.24268	0.0156	0.24562	-0.4092	-0.35402	-0.284	0.048939	-0.2996	-0.11134	0.2057	0.20072
3	-0.6274	-0.25998	0.0125	0.15914	-0.4374	-0.30523	-0.1935	0.069917	-0.3339	-0.04525	0.3684	0.19902
10	-0.6492	-0.28515	0.0062	0.19429	-0.5561	-0.36283	-0.2247	0.11036	-0.3027	-0.07768	0.1186	0.16326
30	-0.4713	-0.25402	0.1186	0.1842	-0.4217	-0.30899	-0.1248	0.089696	-0.5399	-0.054967	0.128	0.20488
50	-0.4838	-0.168	0.0687	0.18554	-0.4342	-0.31339	-0.1935	0.077753	-0.3905	-0.14539	0.1811	0.18077
100	-0.3176	-0.14095	-0.0281	0.10066	-0.5155	-0.3881	-0.2497	0.081996	-0.4219	-0.24715	0.0281	0.15846

Device Test: 19.43 CURRENT|EA//8/8/0/0/5/100kHz//@EA_IB



Test Results (Upper Limit = 25.0 (nA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	-0.3464	-0.4649	-0.1185
411	100	Unbiased	-0.1092	-0.518	-0.4088
444	30	Unbiased	-0.7023	-0.4806	0.2217
454	10	Unbiased	-0.4744	-0.553	-0.0786
491	3	Unbiased	-0.0374	-0.403	-0.3656
500	100	Unbiased	-0.3589	-0.3811	-0.0222
534	100	Biased	-0.6149	-0.5342	0.0807
558	0	Correlation	-0.0811	-0.4061	-0.325
563	100	Biased	-0.7491	-0.4244	0.3247
570	3	Unbiased	-0.4421	-0.4525	-0.0104
614	10	Unbiased	-0.3581	-0.2965	0.0616
675	3	Biased	-0.4181	-0.3994	0.0187
713	100	Unbiased	-0.4546	-0.5242	-0.0696
744	50	Biased	-0.3557	-0.4342	-0.0785
799	50	Biased	-0.33	-0.3932	-0.0632
842	30	Unbiased	-0.3495	-0.4493	-0.0998
889	3	Unbiased	-0.4017	-0.3495	0.0522
901	3	Biased	-0.7897	-0.4618	0.3279
930	50	Unbiased	-0.4119	-0.4026	0.0093
968	100	Unbiased	-0.1279	-0.428	-0.3001
976	100	Unbiased	-0.3705	-0.4587	-0.0882
981	3	Biased	-0.4266	-0.44	-0.0134
1003	10	Biased	-0.0624	-0.453	-0.3906
1039	3	Biased	-0.7897	-0.3463	0.4434
1053	100	Biased	-0.3433	-0.3744	-0.0311
1056	0	Correlation	-0.3153	-0.4092	-0.0939
1072	10	Biased	-0.668	-0.4276	0.2404
1095	50	Unbiased	-0.3612	-0.2812	0.08
1099	0	Correlation	-0.3183	-0.3433	-0.025
1113	3	Biased	-0.383	-0.4306	-0.0476
1142	10	Unbiased	-0.6055	-0.3905	0.215
1154	10	Biased	-0.3215	-0.4618	-0.1403
1215	50	Unbiased	-0.5681	-0.3838	0.1843
1222	100	Biased	-0.3308	-0.3152	0.0156
1229	50	Unbiased	-0.3269	-0.2902	0.0367
1255	3	Unbiased	-0.231	-0.4181	-0.1871
1331	30	Unbiased	-0.8771	-0.4088	0.4683
1359	30	Biased	-0.6055	-0.4556	0.1499
1375	30	Unbiased	-0.5962	-0.4618	0.1344
1398	30	Biased	-0.3153	-0.4811	-0.1658
1411	50	Biased	-0.4275	-0.4337	-0.0062
1465	10	Unbiased	-0.2496	-0.3495	-0.0999
1474	50	Biased	-0.4515	-0.44	0.0115
1504	50	Biased	-0.6087	-0.3963	0.2124
1540	100	Biased	-0.2403	-0.453	-0.2127
1554	3	Unbiased	-0.3332	-0.309	0.0242
1662	30	Biased	-0.4421	-0.4119	0.0302
1679	10	Biased	-0.3215	-0.5373	-0.2158
1697	10	Biased	-0.3425	-0.4868	-0.1443
1703	30	Biased	-0.3985	-0.4213	-0.0228
1704	10	Unbiased	-0.078	-0.3994	-0.3214
1736	30	Biased	-0.4857	-0.3495	0.1362
1737	0	Correlation	-0.4919	-0.4306	0.0613
1748	0	Correlation	-0.181	-0.3744	-0.1934

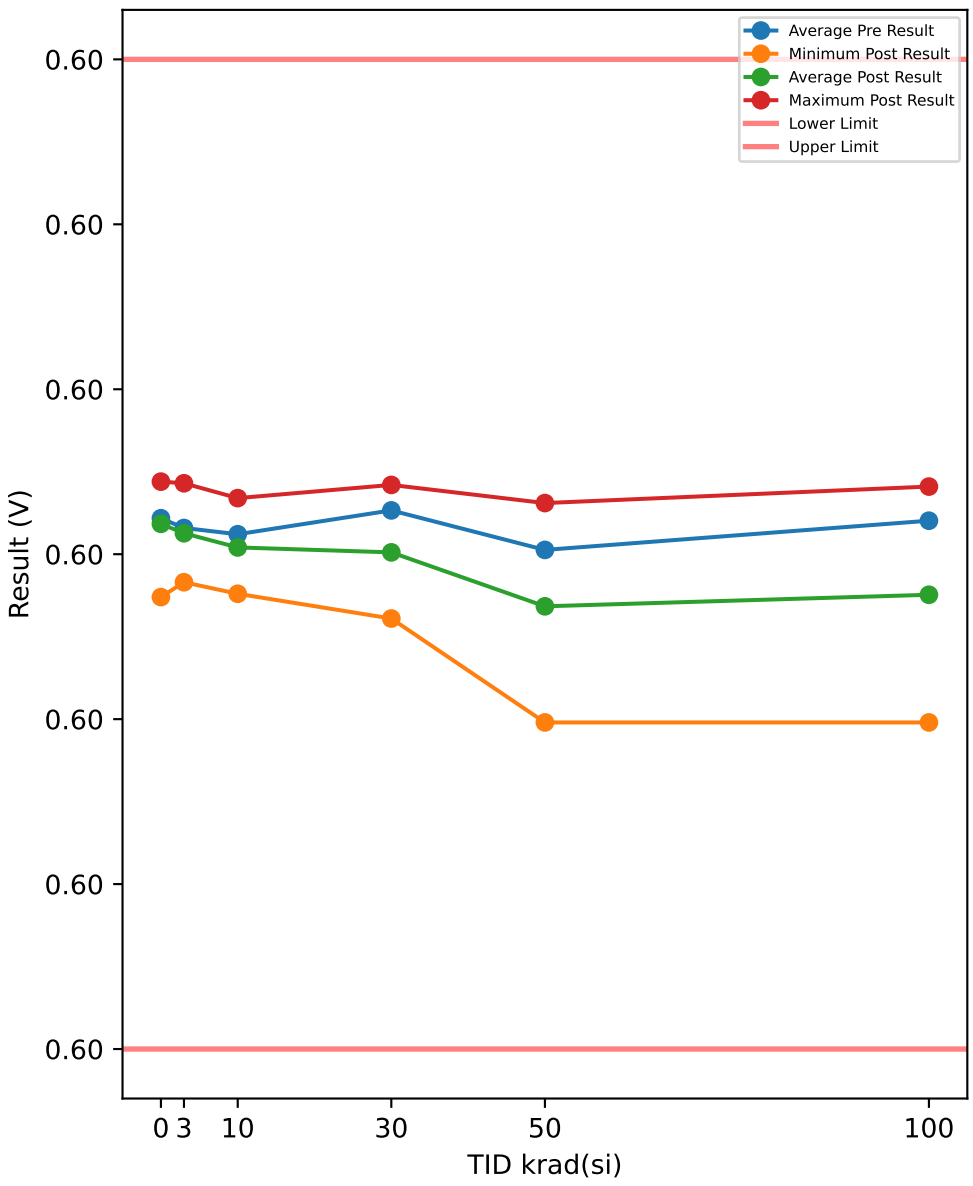


Test Statistics (nA)

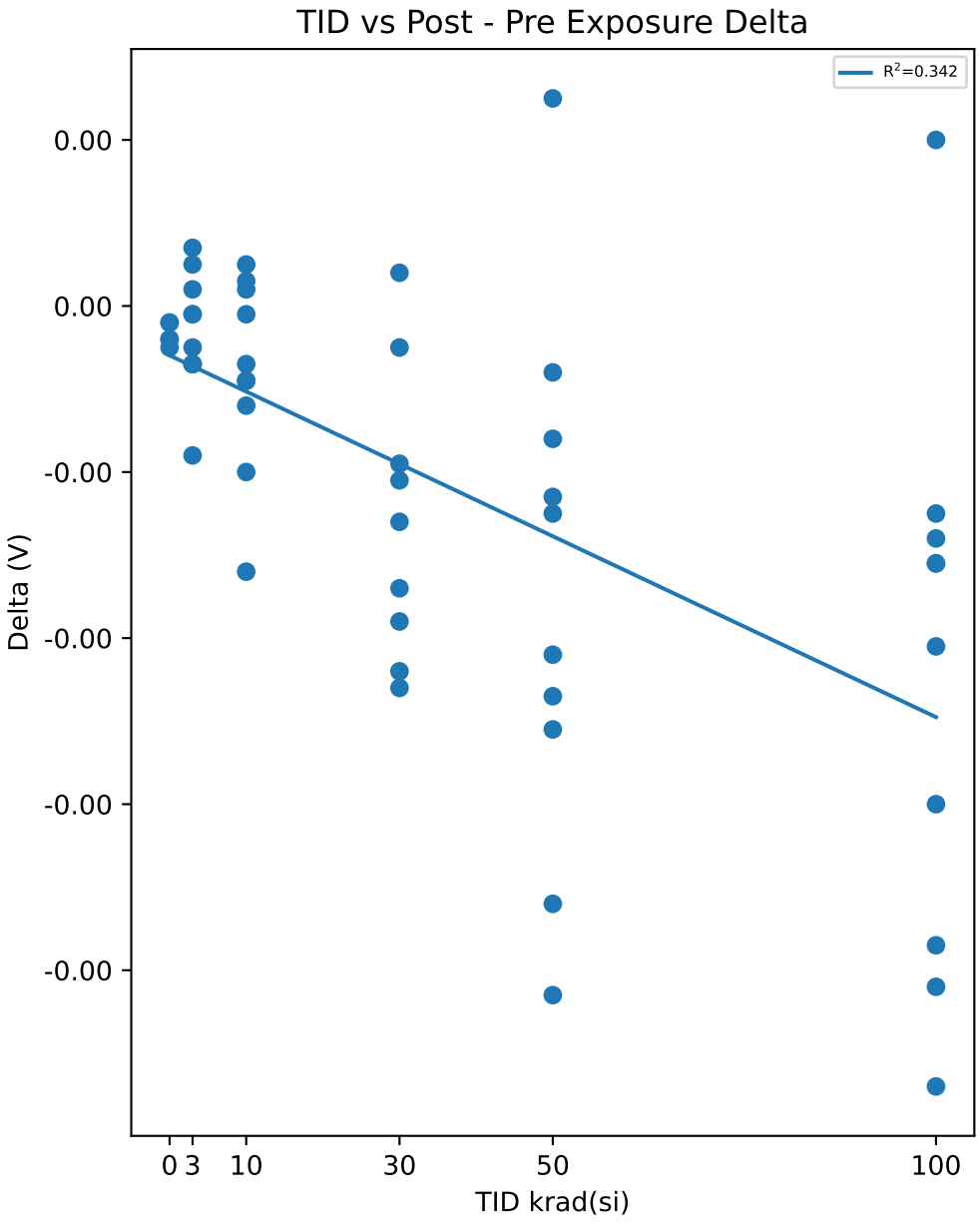
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.4919	-0.27752	-0.0811	0.15568	-0.4306	-0.39272	-0.3433	0.034145	-0.325	-0.1152	0.0613	0.14989
3	-0.7897	-0.42525	-0.0374	0.22729	-0.4618	-0.40102	-0.309	0.050721	-0.3656	0.02423	0.4434	0.22928
10	-0.668	-0.34815	-0.0624	0.19731	-0.553	-0.43554	-0.2965	0.080213	-0.3906	-0.08739	0.2404	0.20831
30	-0.8771	-0.53024	-0.3153	0.18231	-0.4811	-0.43554	-0.3495	0.04223	-0.1658	0.0947	0.4683	0.18898
50	-0.6087	-0.41879	-0.3269	0.099117	-0.4649	-0.39201	-0.2812	0.061443	-0.1185	0.02678	0.2124	0.10755
100	-0.7491	-0.36995	-0.1092	0.19907	-0.5342	-0.44112	-0.3152	0.071716	-0.4088	-0.07117	0.3247	0.20495

Device Test: 19.44 VOLTAGE|VREF//8/8/0/0/5/100kHz//@VREF_25C

TID vs Result Stats



TID vs Post - Pre Exposure Delta



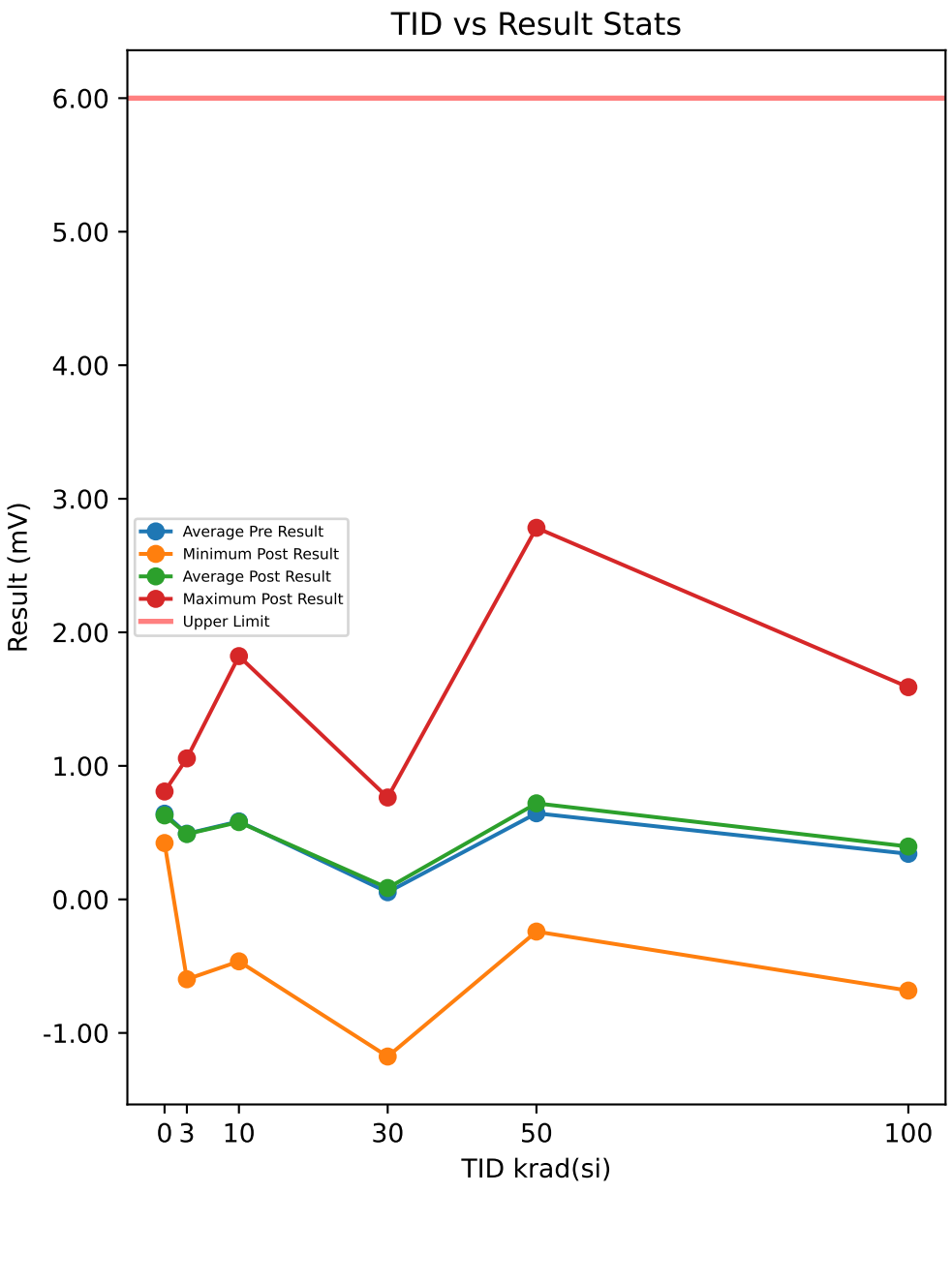
Test Results (Lower Limit = 0.597, Upper Limit = 0.603 (V))

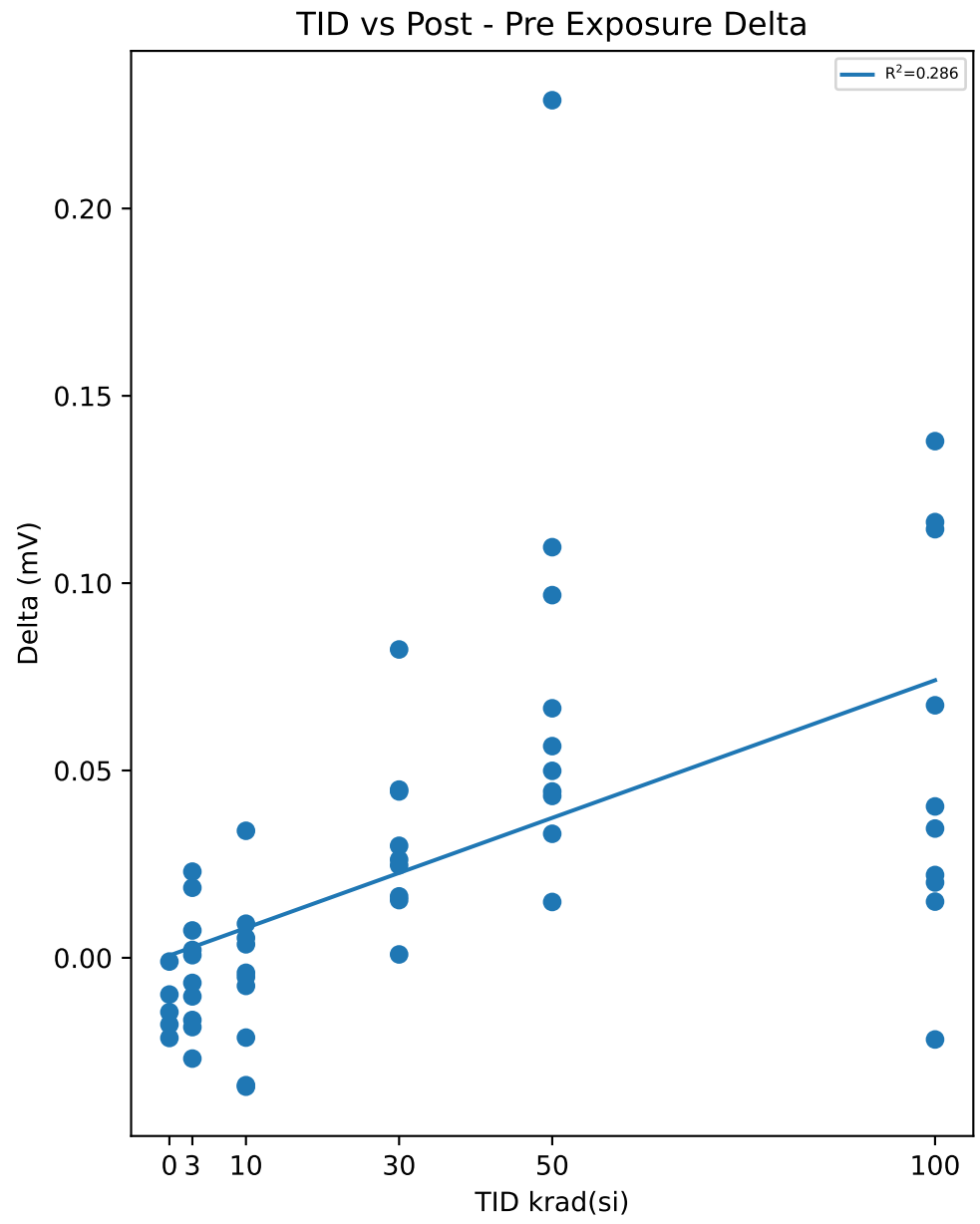
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	0.60004	0.59979	-0.00025
411	100	Unbiased	0.60037	0.5996	-0.00077
444	30	Unbiased	0.60044	0.60039	-5e-05
454	10	Unbiased	0.60027	0.60007	-0.0002
491	3	Unbiased	0.59999	0.60001	2e-05
500	100	Unbiased	0.60025	0.6	-0.00025
534	100	Biased	0.60005	0.59964	-0.00041
558	0	Correlation	0.60033	0.60029	-4e-05
563	100	Biased	0.60037	0.59977	-0.0006
570	3	Unbiased	0.60033	0.60038	5e-05
614	10	Unbiased	0.5999	0.59978	-0.00012
675	3	Biased	0.60036	0.60043	7e-05
713	100	Unbiased	0.60043	0.60012	-0.00031
744	50	Biased	0.59981	0.59965	-0.00016
799	50	Biased	0.59994	0.59986	-8e-05
842	30	Unbiased	0.6003	0.59992	-0.00038
889	3	Unbiased	0.59993	0.59986	-7e-05
901	3	Biased	0.60033	0.60015	-0.00018
930	50	Unbiased	0.60036	0.59994	-0.00042
968	100	Unbiased	0.60021	0.60041	0.0002
976	100	Unbiased	0.60011	0.5998	-0.00031
981	3	Biased	0.60034	0.60033	-1e-05
1003	10	Biased	0.60041	0.60034	-7e-05
1039	3	Biased	0.6003	0.60023	-7e-05
1053	100	Biased	0.60012	0.59918	-0.00094
1056	0	Correlation	0.60043	0.60038	-5e-05
1072	10	Biased	0.60003	0.60002	-1e-05
1095	50	Unbiased	0.59971	0.59924	-0.00047
1099	0	Correlation	0.60046	0.60044	-2e-05
1113	3	Biased	0.60012	0.60011	-1e-05
1142	10	Unbiased	0.60017	0.59985	-0.00032
1154	10	Biased	0.59974	0.59976	2e-05
1215	50	Unbiased	0.60006	0.60031	0.00025
1222	100	Biased	0.5998	0.59898	-0.00082
1229	50	Unbiased	0.60038	0.60015	-0.00023
1255	3	Unbiased	0.60001	0.59994	-7e-05
1331	30	Unbiased	0.60008	0.59962	-0.00046
1359	30	Biased	0.60005	0.59961	-0.00044
1375	30	Unbiased	0.60042	0.60016	-0.00026
1398	30	Biased	0.60033	0.59999	-0.00034
1411	50	Biased	0.59989	0.59917	-0.00072
1465	10	Unbiased	0.60039	0.6003	-9e-05
1474	50	Biased	0.59981	0.59898	-0.00083
1504	50	Biased	0.60026	0.59975	-0.00051
1540	100	Biased	0.60032	0.60004	-0.00028
1554	3	Unbiased	0.59988	0.59983	-5e-05
1662	30	Biased	0.60016	0.6002	4e-05
1679	10	Biased	0.59985	0.59988	3e-05
1697	10	Biased	0.60006	0.60011	5e-05
1703	30	Biased	0.60061	0.60042	-0.00019
1704	10	Unbiased	0.60039	0.6003	-9e-05
1736	30	Biased	0.6	0.59979	-0.00021
1737	0	Correlation	0.60009	0.60007	-2e-05
1748	0	Correlation	0.59978	0.59974	-4e-05

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.59978	0.60022	0.60046	0.00028473	0.59974	0.60018	0.60044	0.00028518	-5e-05	-3.4e-05	-2e-05	1.3416e-05
3	0.59988	0.60016	0.60036	0.00019267	0.59983	0.60013	0.60043	0.00021515	-0.00018	-3.2e-05	7e-05	7.2541e-05
10	0.59974	0.60012	0.60041	0.00024319	0.59976	0.60004	0.60034	0.00022088	-0.00032	-8e-05	5e-05	0.00011441
30	0.6	0.60027	0.60061	0.0002064	0.59961	0.60001	0.60042	0.00030416	-0.00046	-0.00025444	4e-05	0.00017118
50	0.59971	0.60003	0.60038	0.00023852	0.59898	0.59968	0.60031	0.00043195	-0.00083	-0.000342	0.00025	0.0003171
100	0.5998	0.6002	0.60043	0.00018992	0.59898	0.59975	0.60041	0.00043131	-0.00094	-0.000449	0.0002	0.00033897

Device Test: 19.46 VOLTAGE|OFFSET//8/8/0/0/5/100kHz//@EA_OS





Test Results (Upper Limit = 6.0 (mV))

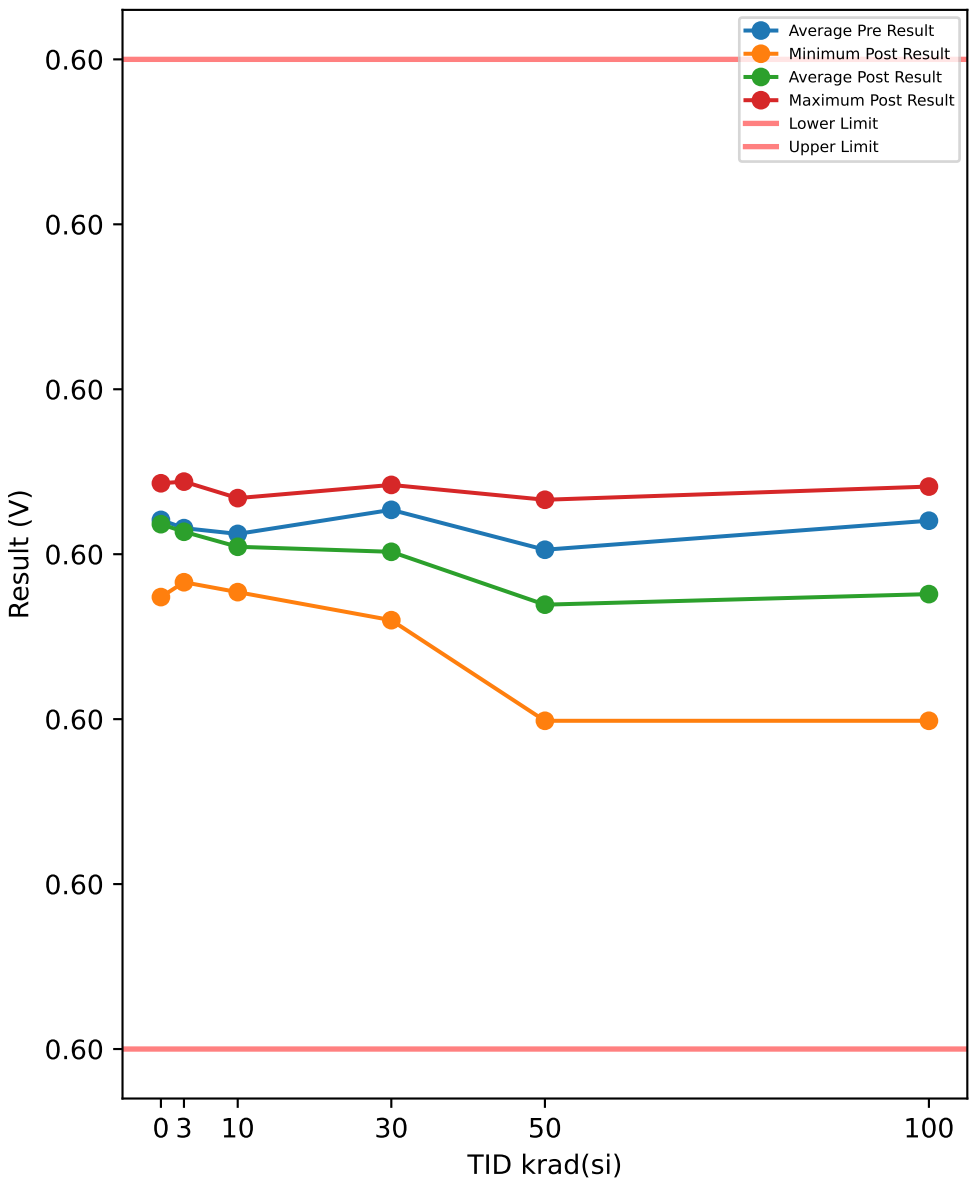
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	0.1745	0.2244	0.0499
411	100	Unbiased	0.5527	0.5872	0.0345
444	30	Unbiased	-1.2029	-1.1767	0.0262
454	10	Unbiased	0.1091	0.0751	-0.034
491	3	Unbiased	-0.5679	-0.5782	-0.0103
500	100	Unbiased	1.4747	1.5891	0.1144
534	100	Biased	0.6567	0.773	0.1163
558	0	Correlation	0.7776	0.7562	-0.0214
563	100	Biased	-0.0316	0.0088	0.0404
570	3	Unbiased	0.9175	0.9182	0.0007
614	10	Unbiased	0.7944	0.7997	0.0053
675	3	Biased	1.0116	0.9931	-0.0185
713	100	Unbiased	0.0823	0.2202	0.1379
744	50	Biased	1.1061	1.1493	0.0432
799	50	Biased	0.819	0.8521	0.0331
842	30	Unbiased	0.5889	0.6136	0.0247
889	3	Unbiased	0.9529	0.955	0.0021
901	3	Biased	1.0372	1.0559	0.0187
930	50	Unbiased	0.3124	0.5413	0.2289
968	100	Unbiased	0.1015	0.1689	0.0674
976	100	Unbiased	0.8229	0.8379	0.015
981	3	Biased	-0.6211	-0.5981	0.023
1003	10	Biased	-0.2211	-0.2424	-0.0213
1039	3	Biased	0.282	0.2654	-0.0166
1053	100	Biased	0.6301	0.6522	0.0221
1056	0	Correlation	0.517	0.5025	-0.0145
1072	10	Biased	0.627	0.6306	0.0036
1095	50	Unbiased	0.123	0.1379	0.0149
1099	0	Correlation	0.666	0.6562	-0.0098
1113	3	Biased	0.9844	0.9575	-0.0269
1142	10	Unbiased	0.6024	0.6115	0.0091
1154	10	Biased	1.4325	1.3981	-0.0344
1215	50	Unbiased	1.0132	1.1228	0.1096
1222	100	Biased	-0.2158	-0.1957	0.0201
1229	50	Unbiased	0.6654	0.7622	0.0968
1255	3	Unbiased	0.5248	0.5181	-0.0067
1331	30	Unbiased	0.0931	0.1754	0.0823
1359	30	Biased	0.2908	0.3072	0.0164
1375	30	Unbiased	0.7475	0.7629	0.0154
1398	30	Biased	0.3702	0.3711	0.0009
1411	50	Biased	-0.2853	-0.2409	0.0444
1465	10	Unbiased	1.7879	1.8218	0.0339
1474	50	Biased	-0.1959	-0.1394	0.0565
1504	50	Biased	2.7159	2.7825	0.0666
1540	100	Biased	-0.6611	-0.6829	-0.0218
1554	3	Unbiased	0.3989	0.4062	0.0073
1662	30	Biased	-0.1527	-0.1083	0.0444
1679	10	Biased	-0.4564	-0.4639	-0.0075
1697	10	Biased	0.3902	0.3862	-0.004
1703	30	Biased	-0.0711	-0.0262	0.0449
1704	10	Unbiased	0.7765	0.7714	-0.0051
1736	30	Biased	-0.1812	-0.1513	0.0299
1737	0	Correlation	0.4231	0.4221	-0.001
1748	0	Correlation	0.8256	0.8078	-0.0178

Test Statistics (mV)

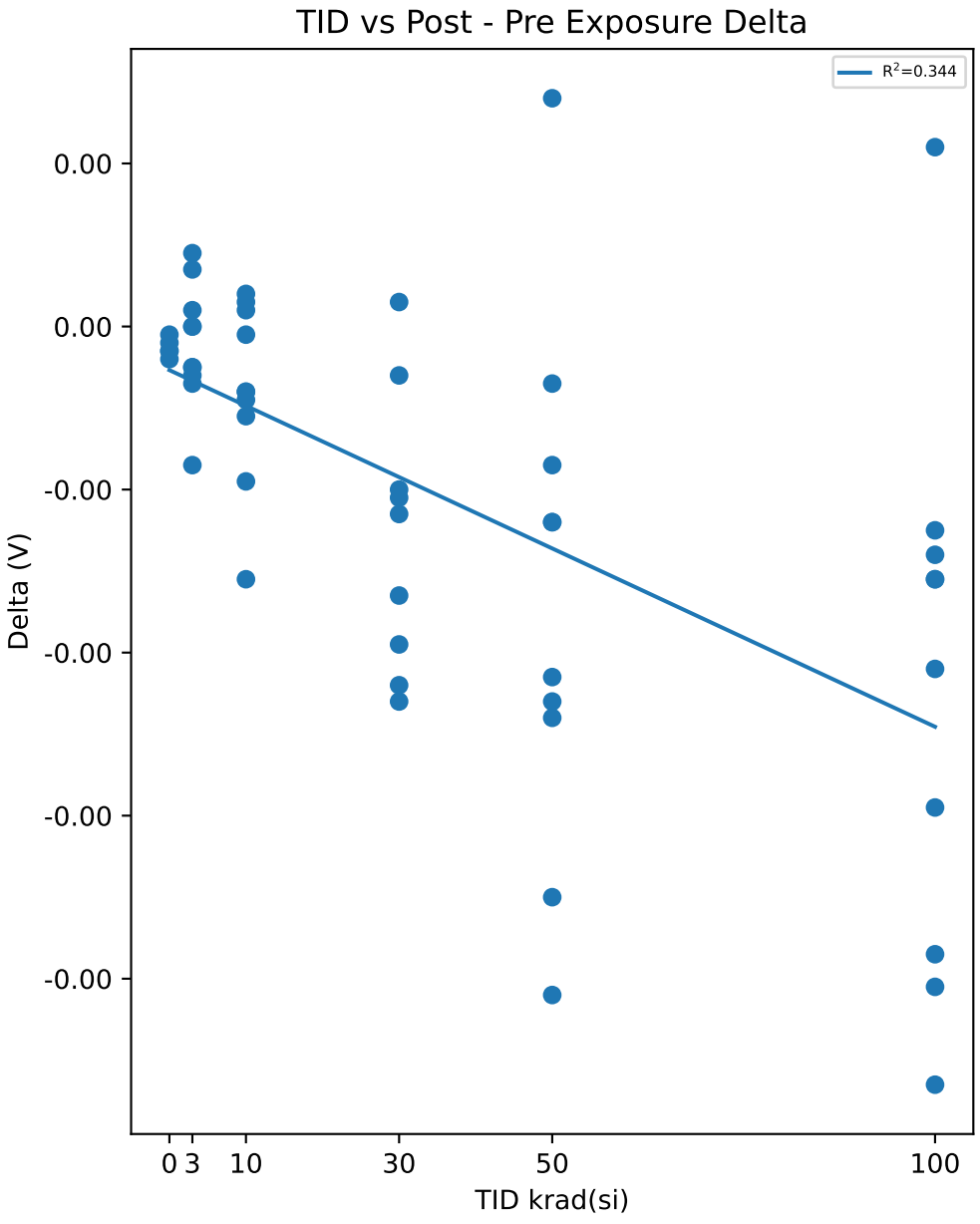
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.4231	0.64186	0.8256	0.17045	0.4221	0.62896	0.8078	0.16409	-0.0214	-0.0129	-0.001	0.0079063
3	-0.6211	0.49203	1.0372	0.63416	-0.5981	0.48931	1.0559	0.63023	-0.0269	-0.00272	0.023	0.016177
10	-0.4564	0.58425	1.7879	0.6869	-0.4639	0.57881	1.8218	0.69589	-0.0344	-0.00544	0.0339	0.020732
30	-1.2029	0.053622	0.7475	0.57207	-1.1767	0.0853	0.7629	0.56743	0.0009	0.031678	0.0823	0.023523
50	-0.2853	0.64483	2.7159	0.87207	-0.2409	0.71922	2.7825	0.87547	0.0149	0.07439	0.2289	0.061203
100	-0.6611	0.34124	1.4747	0.60763	-0.6829	0.39587	1.5891	0.6333	-0.0218	0.05463	0.1379	0.052433

Device Test: 19.47 VOLTAGE|VREF//8/8/0/0/5/500kHz//@VREF_25C

TID vs Result Stats



TID vs Post - Pre Exposure Delta



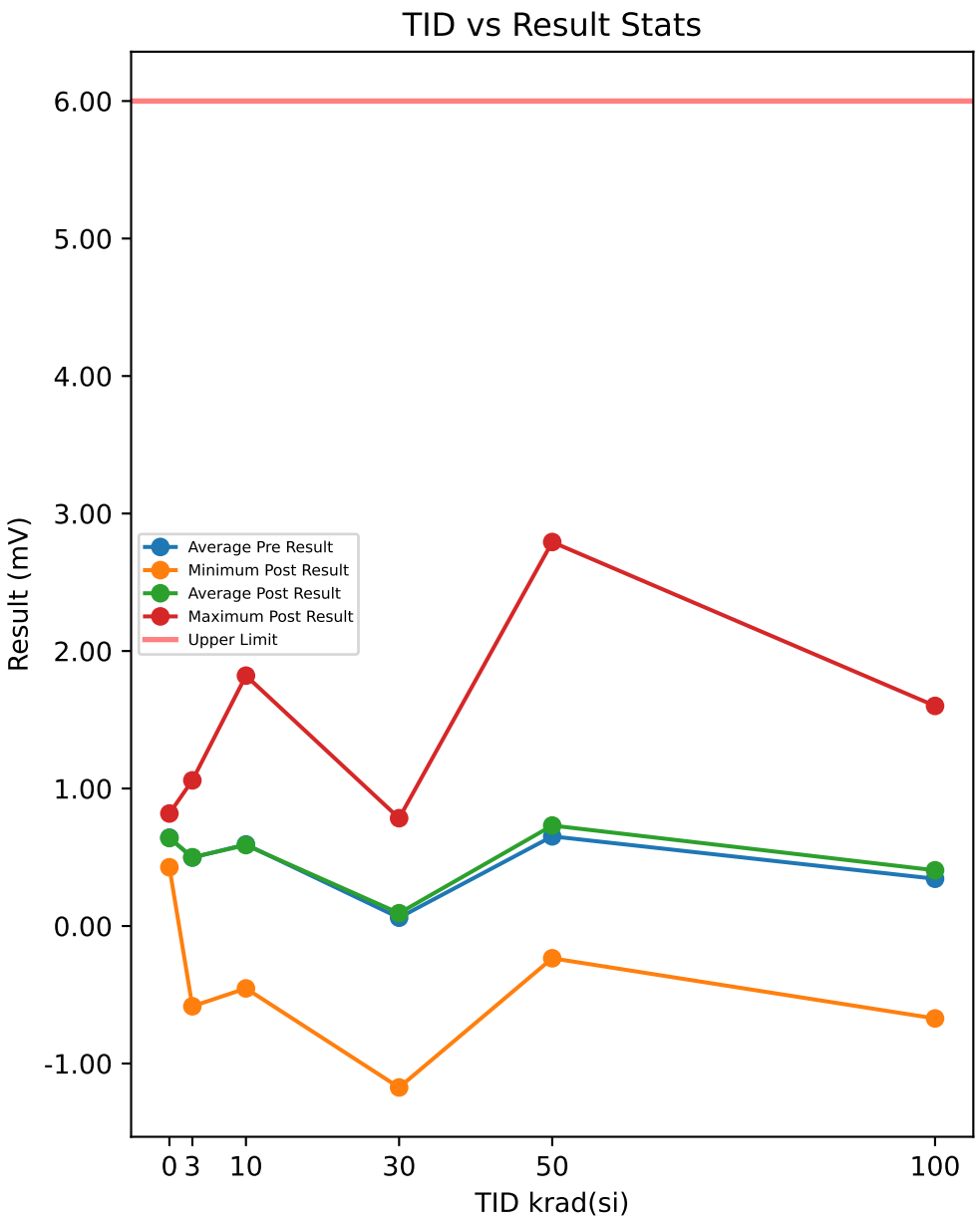
Test Results (Lower Limit = 0.597, Upper Limit = 0.603 (V))

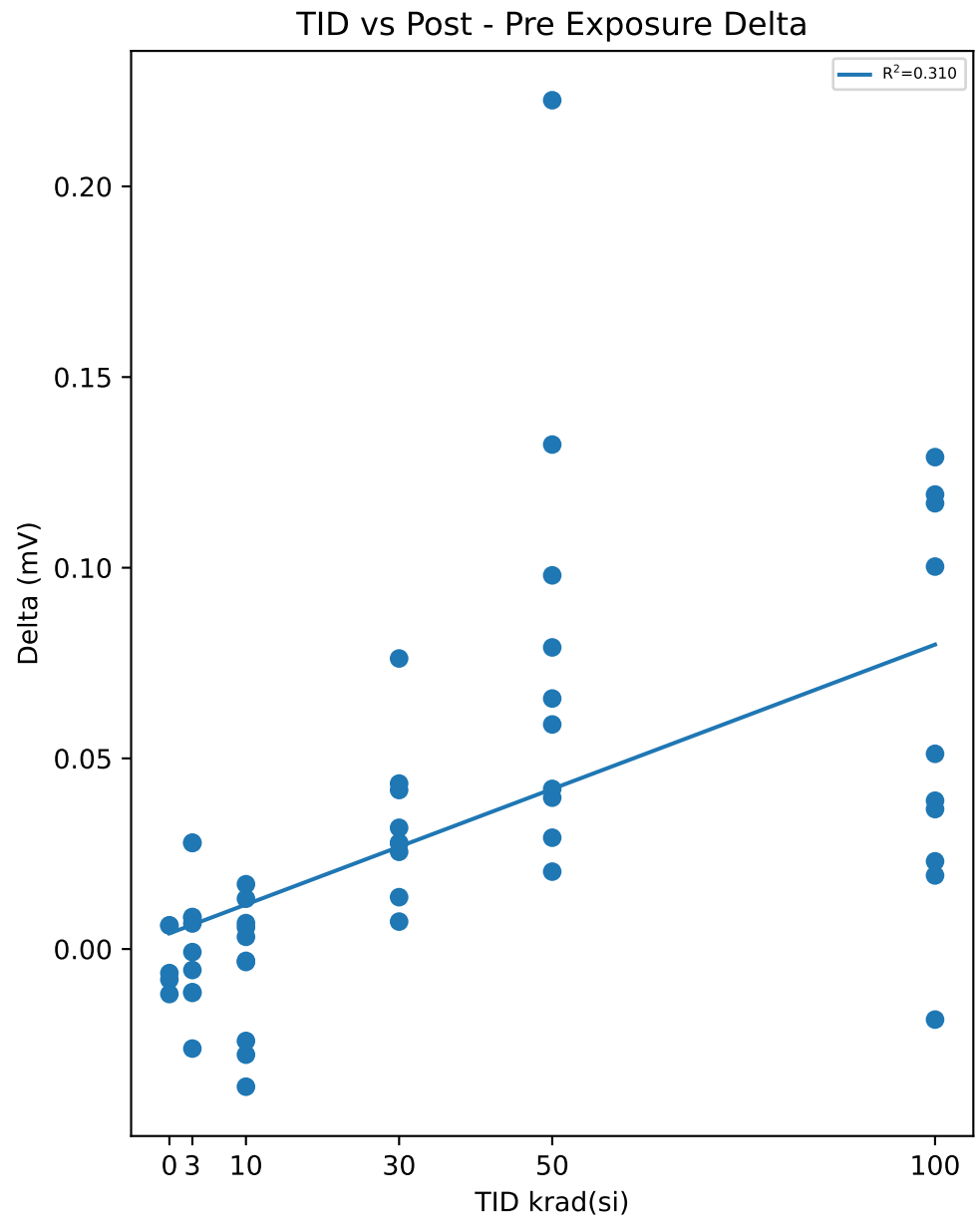
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	0.60004	0.5998	-0.00024
411	100	Unbiased	0.60038	0.59961	-0.00077
444	30	Unbiased	0.60045	0.60039	-6e-05
454	10	Unbiased	0.60026	0.60007	-0.00019
491	3	Unbiased	0.6	0.60002	2e-05
500	100	Unbiased	0.60025	0.6	-0.00025
534	100	Biased	0.60006	0.59964	-0.00042
558	0	Correlation	0.60032	0.60029	-3e-05
563	100	Biased	0.60036	0.59977	-0.00059
570	3	Unbiased	0.60032	0.60039	7e-05
614	10	Unbiased	0.5999	0.59979	-0.00011
675	3	Biased	0.60035	0.60044	9e-05
713	100	Unbiased	0.60043	0.60012	-0.00031
744	50	Biased	0.59981	0.59964	-0.00017
799	50	Biased	0.59995	0.59988	-7e-05
842	30	Unbiased	0.60032	0.59993	-0.00039
889	3	Unbiased	0.59994	0.59987	-7e-05
901	3	Biased	0.60032	0.60015	-0.00017
930	50	Unbiased	0.60037	0.59994	-0.00043
968	100	Unbiased	0.60019	0.60041	0.00022
976	100	Unbiased	0.60012	0.59981	-0.00031
981	3	Biased	0.60034	0.60034	0
1003	10	Biased	0.60042	0.60034	-8e-05
1039	3	Biased	0.6003	0.60025	-5e-05
1053	100	Biased	0.60012	0.59919	-0.00093
1056	0	Correlation	0.60043	0.60039	-4e-05
1072	10	Biased	0.60004	0.60003	-1e-05
1095	50	Unbiased	0.59971	0.59925	-0.00046
1099	0	Correlation	0.60044	0.60043	-1e-05
1113	3	Biased	0.60012	0.60012	0
1142	10	Unbiased	0.60016	0.59985	-0.00031
1154	10	Biased	0.59975	0.59977	2e-05
1215	50	Unbiased	0.60005	0.60033	0.00028
1222	100	Biased	0.5998	0.59899	-0.00081
1229	50	Unbiased	0.60039	0.60015	-0.00024
1255	3	Unbiased	0.6	0.59995	-5e-05
1331	30	Unbiased	0.60008	0.59962	-0.00046
1359	30	Biased	0.60004	0.5996	-0.00044
1375	30	Unbiased	0.6004	0.60017	-0.00023
1398	30	Biased	0.60033	0.6	-0.00033
1411	50	Biased	0.59989	0.59919	-0.0007
1465	10	Unbiased	0.60039	0.6003	-9e-05
1474	50	Biased	0.59981	0.59899	-0.00082
1504	50	Biased	0.60025	0.59977	-0.00048
1540	100	Biased	0.60032	0.60004	-0.00028
1554	3	Unbiased	0.59989	0.59983	-6e-05
1662	30	Biased	0.60017	0.6002	3e-05
1679	10	Biased	0.59985	0.59988	3e-05
1697	10	Biased	0.60007	0.60011	4e-05
1703	30	Biased	0.60062	0.60042	-0.0002
1704	10	Unbiased	0.60039	0.60031	-8e-05
1736	30	Biased	0.60001	0.5998	-0.00021
1737	0	Correlation	0.60008	0.60006	-2e-05
1748	0	Correlation	0.59977	0.59974	-3e-05

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.59977	0.60021	0.60044	0.00028455	0.59974	0.60018	0.60043	0.00028578	-4e-05	-2.6e-05	-1e-05	1.1402e-05
3	0.59989	0.60016	0.60035	0.0001866	0.59983	0.60014	0.60044	0.00021716	-0.00017	-2.2e-05	9e-05	7.5248e-05
10	0.59975	0.60012	0.60042	0.0002413	0.59977	0.60004	0.60034	0.00021941	-0.00031	-7.8e-05	4e-05	0.00010922
30	0.60001	0.60027	0.60062	0.00020751	0.5996	0.60001	0.60042	0.00030513	-0.00046	-0.00025444	3e-05	0.00016771
50	0.59971	0.60003	0.60039	0.00024019	0.59899	0.59969	0.60033	0.00043131	-0.00082	-0.000333	0.00028	0.0003176
100	0.5998	0.6002	0.60043	0.00018862	0.59899	0.59976	0.60041	0.00042757	-0.00093	-0.000445	0.00022	0.00033988

Device Test: 19.49 VOLTAGE|OFFSET//8/8/0/0/5/500kHz//@EA_OS





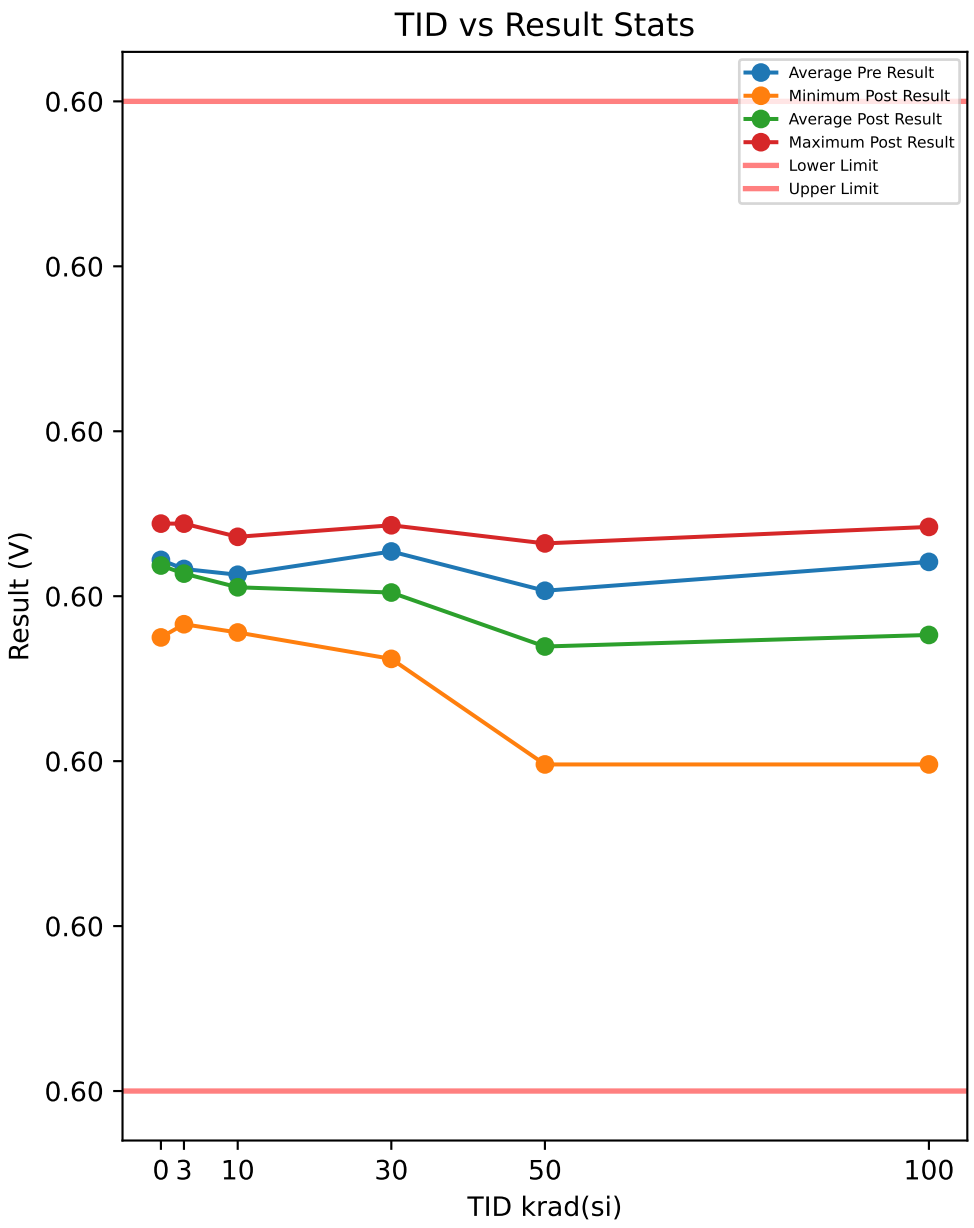
Test Results (Upper Limit = 6.0 (mV))

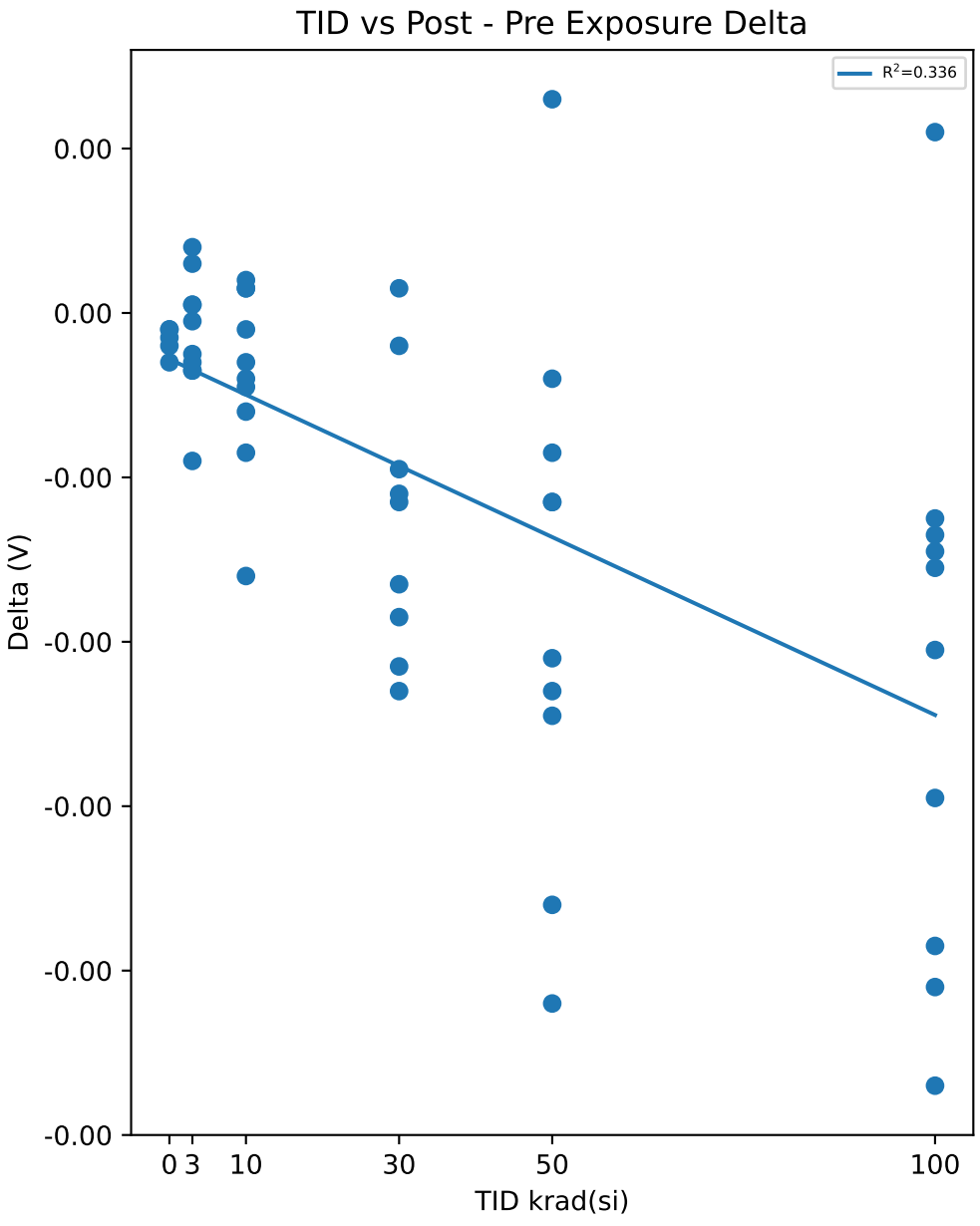
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	0.1728	0.2385	0.0657
411	100	Unbiased	0.5646	0.6013	0.0367
444	30	Unbiased	-1.2021	-1.1743	0.0278
454	10	Unbiased	0.1091	0.085	-0.0241
491	3	Unbiased	-0.5584	-0.5697	-0.0113
500	100	Unbiased	1.4839	1.6008	0.1169
534	100	Biased	0.6688	0.788	0.1192
558	0	Correlation	0.7757	0.7639	-0.0118
563	100	Biased	-0.0388	0.0124	0.0512
570	3	Unbiased	0.9238	0.9322	0.0084
614	10	Unbiased	0.8031	0.8063	0.0032
675	3	Biased	1.0177	1.0062	-0.0115
713	100	Unbiased	0.0843	0.2133	0.129
744	50	Biased	1.1222	1.1425	0.0203
799	50	Biased	0.8338	0.8735	0.0397
842	30	Unbiased	0.6063	0.6341	0.0278
889	3	Unbiased	0.9619	0.9686	0.0067
901	3	Biased	1.0315	1.0593	0.0278
930	50	Unbiased	0.3237	0.5463	0.2226
968	100	Unbiased	0.08	0.1803	0.1003
976	100	Unbiased	0.8278	0.8508	0.023
981	3	Biased	-0.6118	-0.5839	0.0279
1003	10	Biased	-0.1994	-0.2271	-0.0277
1039	3	Biased	0.2813	0.2805	-0.0008
1053	100	Biased	0.6341	0.6534	0.0193
1056	0	Correlation	0.5271	0.5333	0.0062
1072	10	Biased	0.6367	0.6435	0.0068
1095	50	Unbiased	0.1352	0.1644	0.0292
1099	0	Correlation	0.6624	0.6561	-0.0063
1113	3	Biased	0.9929	0.9668	-0.0261
1142	10	Unbiased	0.6038	0.617	0.0132
1154	10	Biased	1.4487	1.4126	-0.0361
1215	50	Unbiased	1.0084	1.1407	0.1323
1222	100	Biased	-0.2145	-0.1756	0.0389
1229	50	Unbiased	0.6771	0.7751	0.098
1255	3	Unbiased	0.5292	0.5237	-0.0055
1331	30	Unbiased	0.1029	0.1791	0.0762
1359	30	Biased	0.2972	0.3044	0.0072
1375	30	Unbiased	0.7424	0.7841	0.0417
1398	30	Biased	0.3709	0.3845	0.0136
1411	50	Biased	-0.2766	-0.2346	0.042
1465	10	Unbiased	1.8039	1.8209	0.017
1474	50	Biased	-0.1894	-0.1305	0.0589
1504	50	Biased	2.7136	2.7927	0.0791
1540	100	Biased	-0.6538	-0.6723	-0.0185
1554	3	Unbiased	0.4088	0.4171	0.0083
1662	30	Biased	-0.1396	-0.1078	0.0318
1679	10	Biased	-0.4595	-0.4538	0.0057
1697	10	Biased	0.4023	0.3992	-0.0031
1703	30	Biased	-0.058	-0.0146	0.0434
1704	10	Unbiased	0.784	0.7806	-0.0034
1736	30	Biased	-0.1753	-0.1498	0.0255
1737	0	Correlation	0.4211	0.4273	0.0062
1748	0	Correlation	0.8262	0.8182	-0.008

Test Statistics (mV)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.4211	0.6425	0.8262	0.16898	0.4273	0.63976	0.8182	0.16124	-0.0118	-0.00274	0.0062	0.0084005
3	-0.6118	0.49769	1.0315	0.63243	-0.5839	0.50008	1.0593	0.62964	-0.0261	0.00239	0.0279	0.017161
10	-0.4595	0.59327	1.8039	0.6902	-0.4538	0.58842	1.8209	0.69339	-0.0361	-0.00485	0.017	0.018225
30	-1.2021	0.060522	0.7424	0.57237	-1.1743	0.0933	0.7841	0.57275	0.0072	0.032778	0.0762	0.020011
50	-0.2766	0.65208	2.7136	0.86966	-0.2346	0.73086	2.7927	0.87447	0.0203	0.07878	0.2226	0.060775
100	-0.6538	0.34364	1.4839	0.61128	-0.6723	0.40524	1.6008	0.63374	-0.0185	0.0616	0.129	0.050941

Device Test: 19.50 VOLTAGE|VREF//8/8/0/1000/5/100kHz//@VREF_25C





Test Results (Lower Limit = 0.597, Upper Limit = 0.603 (V))

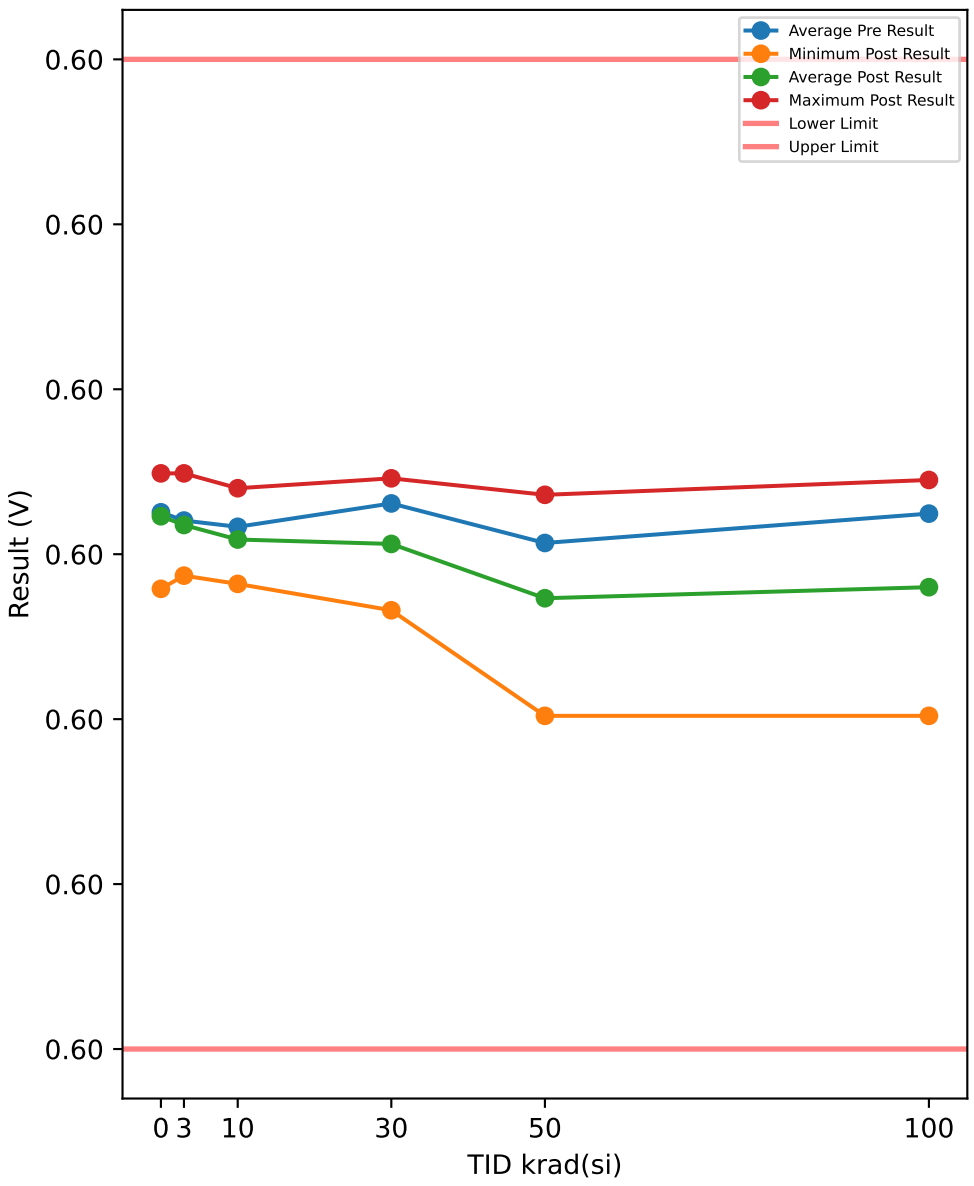
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	0.60004	0.59981	-0.00023
411	100	Unbiased	0.60038	0.59961	-0.00077
444	30	Unbiased	0.60044	0.6004	-4e-05
454	10	Unbiased	0.60025	0.60008	-0.00017
491	3	Unbiased	0.60001	0.60002	1e-05
500	100	Unbiased	0.60026	0.60001	-0.00025
534	100	Biased	0.60006	0.59965	-0.00041
558	0	Correlation	0.60033	0.60029	-4e-05
563	100	Biased	0.60037	0.59978	-0.00059
570	3	Unbiased	0.60033	0.60039	6e-05
614	10	Unbiased	0.59992	0.5998	-0.00012
675	3	Biased	0.60036	0.60044	8e-05
713	100	Unbiased	0.60044	0.60013	-0.00031
744	50	Biased	0.59982	0.59965	-0.00017
799	50	Biased	0.59995	0.59987	-8e-05
842	30	Unbiased	0.60031	0.59994	-0.00037
889	3	Unbiased	0.59994	0.59987	-7e-05
901	3	Biased	0.60033	0.60015	-0.00018
930	50	Unbiased	0.60037	0.59995	-0.00042
968	100	Unbiased	0.6002	0.60042	0.00022
976	100	Unbiased	0.60012	0.59983	-0.00029
981	3	Biased	0.60034	0.60035	1e-05
1003	10	Biased	0.60042	0.60036	-6e-05
1039	3	Biased	0.6003	0.60025	-5e-05
1053	100	Biased	0.60013	0.59919	-0.00094
1056	0	Correlation	0.60044	0.60038	-6e-05
1072	10	Biased	0.60004	0.60002	-2e-05
1095	50	Unbiased	0.59971	0.59925	-0.00046
1099	0	Correlation	0.60046	0.60044	-2e-05
1113	3	Biased	0.60013	0.60012	-1e-05
1142	10	Unbiased	0.60018	0.59986	-0.00032
1154	10	Biased	0.59975	0.59978	3e-05
1215	50	Unbiased	0.60006	0.60032	0.00026
1222	100	Biased	0.5998	0.59898	-0.00082
1229	50	Unbiased	0.60039	0.60016	-0.00023
1255	3	Unbiased	0.60002	0.59995	-7e-05
1331	30	Unbiased	0.60009	0.59963	-0.00046
1359	30	Biased	0.60005	0.59962	-0.00043
1375	30	Unbiased	0.60041	0.60018	-0.00023
1398	30	Biased	0.60033	0.6	-0.00033
1411	50	Biased	0.59991	0.59919	-0.00072
1465	10	Unbiased	0.6004	0.60032	-8e-05
1474	50	Biased	0.59982	0.59898	-0.00084
1504	50	Biased	0.60026	0.59977	-0.00049
1540	100	Biased	0.60032	0.60005	-0.00027
1554	3	Unbiased	0.59989	0.59983	-6e-05
1662	30	Biased	0.60017	0.6002	3e-05
1679	10	Biased	0.59986	0.59989	3e-05
1697	10	Biased	0.60008	0.60012	4e-05
1703	30	Biased	0.60062	0.60043	-0.00019
1704	10	Unbiased	0.6004	0.60031	-9e-05
1736	30	Biased	0.60002	0.5998	-0.00022
1737	0	Correlation	0.60009	0.60007	-2e-05
1748	0	Correlation	0.59978	0.59975	-3e-05

Test Statistics (V)

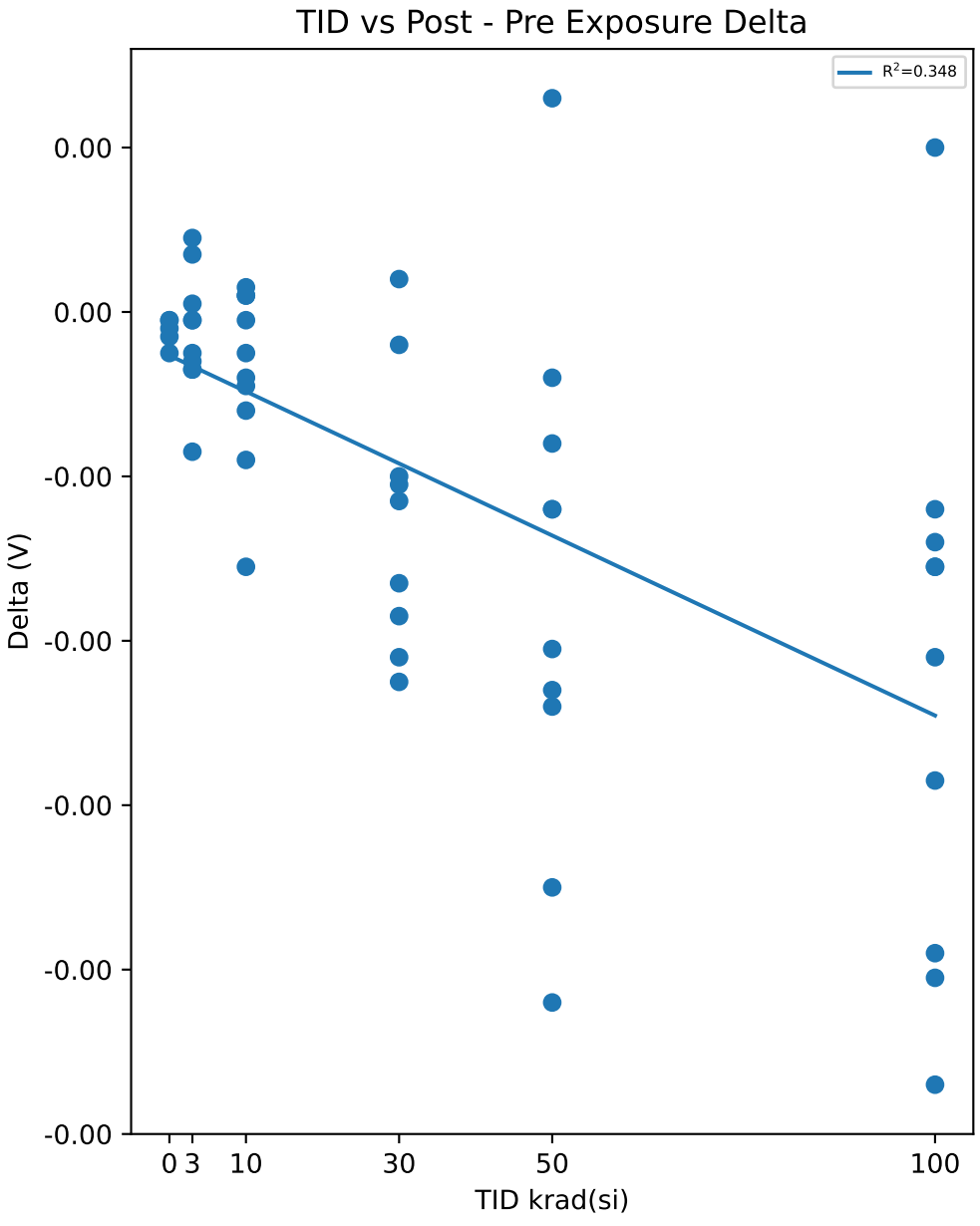
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.59978	0.60022	0.60046	0.00028662	0.59975	0.60019	0.60044	0.0002813	-6e-05	-3.4e-05	-2e-05	1.6733e-05
3	0.59989	0.60016	0.60036	0.00018674	0.59983	0.60014	0.60044	0.00021823	-0.00018	-2.8e-05	8e-05	7.51e-05
10	0.59975	0.60013	0.60042	0.00024009	0.59978	0.60005	0.60036	0.00022117	-0.00032	-7.6e-05	4e-05	0.00011047
30	0.60002	0.60027	0.60062	0.00020294	0.59962	0.60002	0.60043	0.00030368	-0.00046	-0.00024889	3e-05	0.00016759
50	0.59971	0.60003	0.60039	0.00023814	0.59898	0.59969	0.60032	0.00043303	-0.00084	-0.000338	0.00026	0.00031944
100	0.5998	0.60021	0.60044	0.00019066	0.59898	0.59976	0.60042	0.0004336	-0.00094	-0.000443	0.00022	0.00034426

Device Test: 19.52 VOLTAGE|VREF//8/8/0/1000/5/500kHz//@VREF_25C

TID vs Result Stats



TID vs Post - Pre Exposure Delta



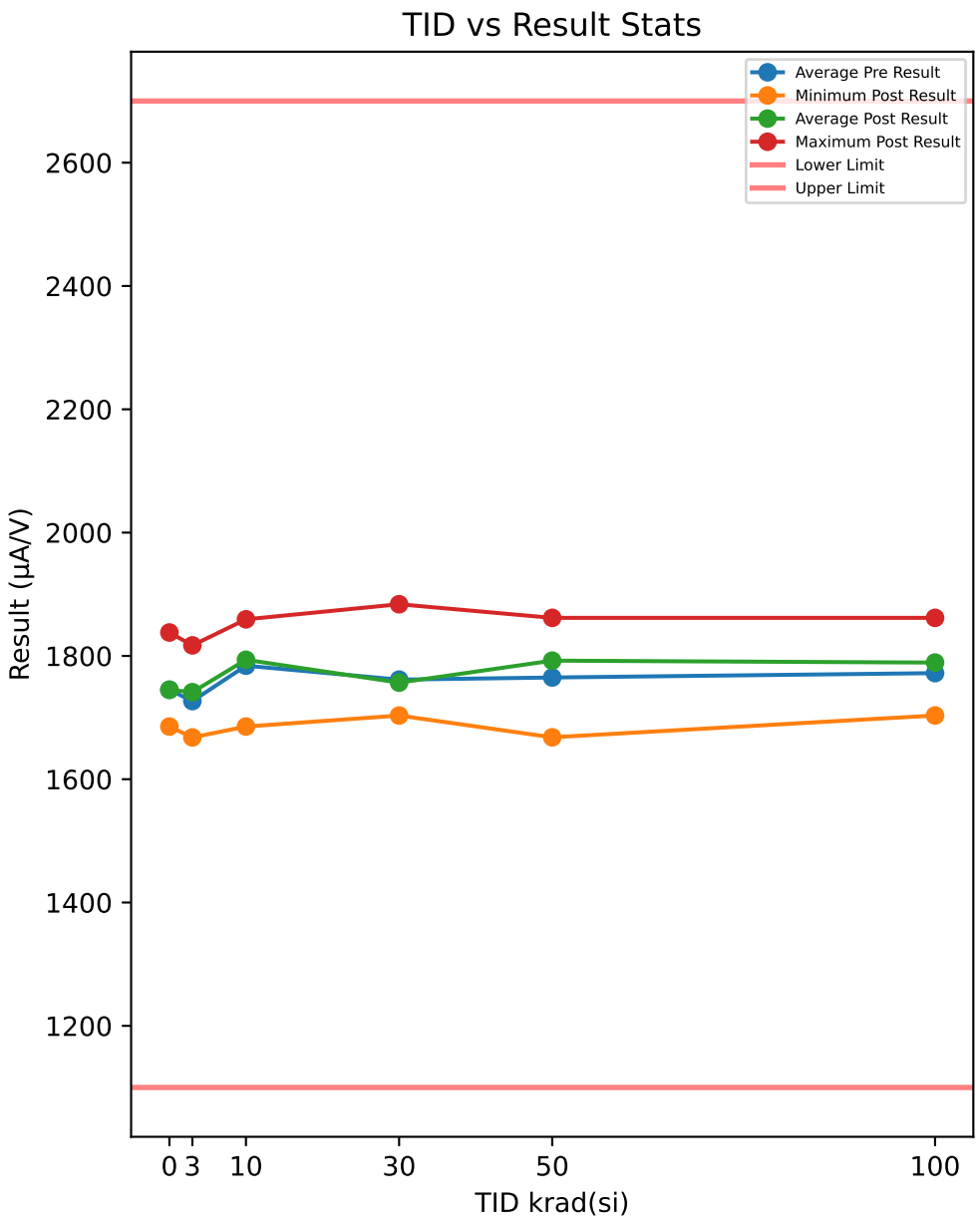
Test Results (Lower Limit = 0.597, Upper Limit = 0.603 (V))

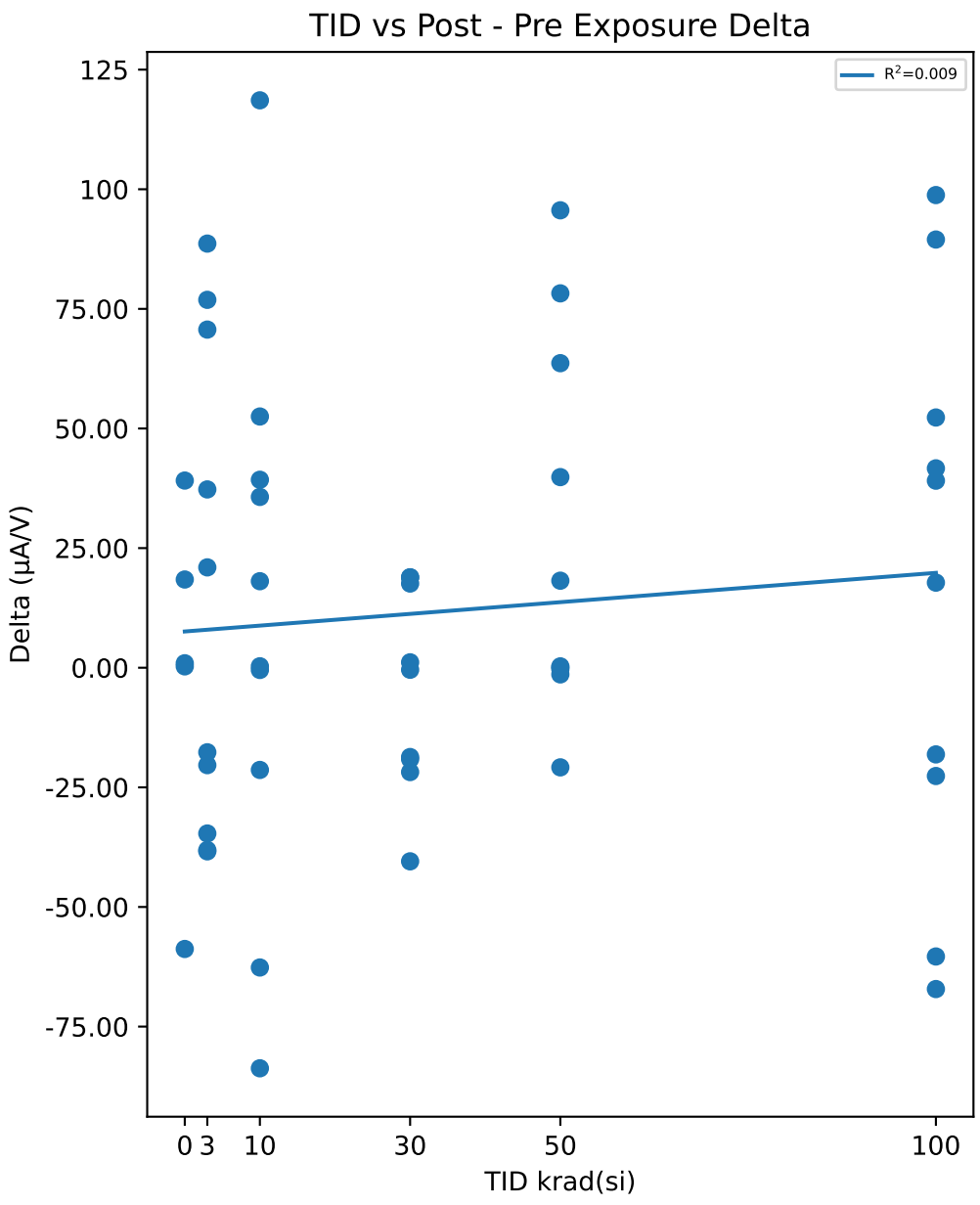
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	0.60008	0.59984	-0.00024
411	100	Unbiased	0.60043	0.59965	-0.00078
444	30	Unbiased	0.60048	0.60044	-4e-05
454	10	Unbiased	0.60029	0.60011	-0.00018
491	3	Unbiased	0.60005	0.60006	1e-05
500	100	Unbiased	0.60028	0.60004	-0.00024
534	100	Biased	0.6001	0.59968	-0.00042
558	0	Correlation	0.60036	0.60034	-2e-05
563	100	Biased	0.6004	0.59983	-0.00057
570	3	Unbiased	0.60036	0.60043	7e-05
614	10	Unbiased	0.59994	0.59982	-0.00012
675	3	Biased	0.6004	0.60049	9e-05
713	100	Unbiased	0.60049	0.60018	-0.00031
744	50	Biased	0.59985	0.59969	-0.00016
799	50	Biased	0.59999	0.59991	-8e-05
842	30	Unbiased	0.60036	0.59999	-0.00037
889	3	Unbiased	0.59998	0.59992	-6e-05
901	3	Biased	0.60037	0.6002	-0.00017
930	50	Unbiased	0.60039	0.59998	-0.00041
968	100	Unbiased	0.60025	0.60045	0.0002
976	100	Unbiased	0.60017	0.59986	-0.00031
981	3	Biased	0.60038	0.60037	-1e-05
1003	10	Biased	0.60045	0.6004	-5e-05
1039	3	Biased	0.60034	0.60029	-5e-05
1053	100	Biased	0.60016	0.59922	-0.00094
1056	0	Correlation	0.60047	0.60042	-5e-05
1072	10	Biased	0.60008	0.60007	-1e-05
1095	50	Unbiased	0.59976	0.59928	-0.00048
1099	0	Correlation	0.6005	0.60049	-1e-05
1113	3	Biased	0.60017	0.60016	-1e-05
1142	10	Unbiased	0.6002	0.59989	-0.00031
1154	10	Biased	0.5998	0.59982	2e-05
1215	50	Unbiased	0.6001	0.60036	0.00026
1222	100	Biased	0.59983	0.59902	-0.00081
1229	50	Unbiased	0.60043	0.60019	-0.00024
1255	3	Unbiased	0.60005	0.59998	-7e-05
1331	30	Unbiased	0.60012	0.59967	-0.00045
1359	30	Biased	0.60008	0.59966	-0.00042
1375	30	Unbiased	0.60044	0.60021	-0.00023
1398	30	Biased	0.60037	0.60004	-0.00033
1411	50	Biased	0.59993	0.59923	-0.0007
1465	10	Unbiased	0.60044	0.60035	-9e-05
1474	50	Biased	0.59986	0.59902	-0.00084
1504	50	Biased	0.60029	0.59983	-0.00046
1540	100	Biased	0.60035	0.60007	-0.00028
1554	3	Unbiased	0.59994	0.59987	-7e-05
1662	30	Biased	0.60021	0.60025	4e-05
1679	10	Biased	0.5999	0.59992	2e-05
1697	10	Biased	0.60013	0.60016	3e-05
1703	30	Biased	0.60066	0.60046	-0.0002
1704	10	Unbiased	0.60043	0.60035	-8e-05
1736	30	Biased	0.60005	0.59984	-0.00021
1737	0	Correlation	0.60014	0.60011	-3e-05
1748	0	Correlation	0.5998	0.59979	-1e-05

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.5998	0.60025	0.6005	0.00029048	0.59979	0.60023	0.60049	0.00028452	-5e-05	-2.4e-05	-1e-05	1.6733e-05
3	0.59994	0.6002	0.6004	0.00018506	0.59987	0.60018	0.60049	0.00021746	-0.00017	-2.7e-05	9e-05	7.5137e-05
10	0.5998	0.60017	0.60045	0.00023722	0.59982	0.60009	0.6004	0.00022403	-0.00031	-7.7e-05	3e-05	0.00010667
30	0.60005	0.60031	0.60066	0.00020644	0.59966	0.60006	0.60046	0.00030182	-0.00045	-0.00024556	4e-05	0.00016667
50	0.59976	0.60007	0.60043	0.00023475	0.59902	0.59973	0.60036	0.00043251	-0.00084	-0.000335	0.00026	0.00031592
100	0.59983	0.60025	0.60049	0.0001934	0.59902	0.5998	0.60045	0.00043251	-0.00094	-0.000446	0.0002	0.00033804

Device Test: 19.9 LEVEL|TRANSCONDUCTANCE//12/12/0/0/5/500kHz//@EA_GM





Test Results (Lower Limit = 1100.0, Upper Limit = 2700.0 (µA/V))

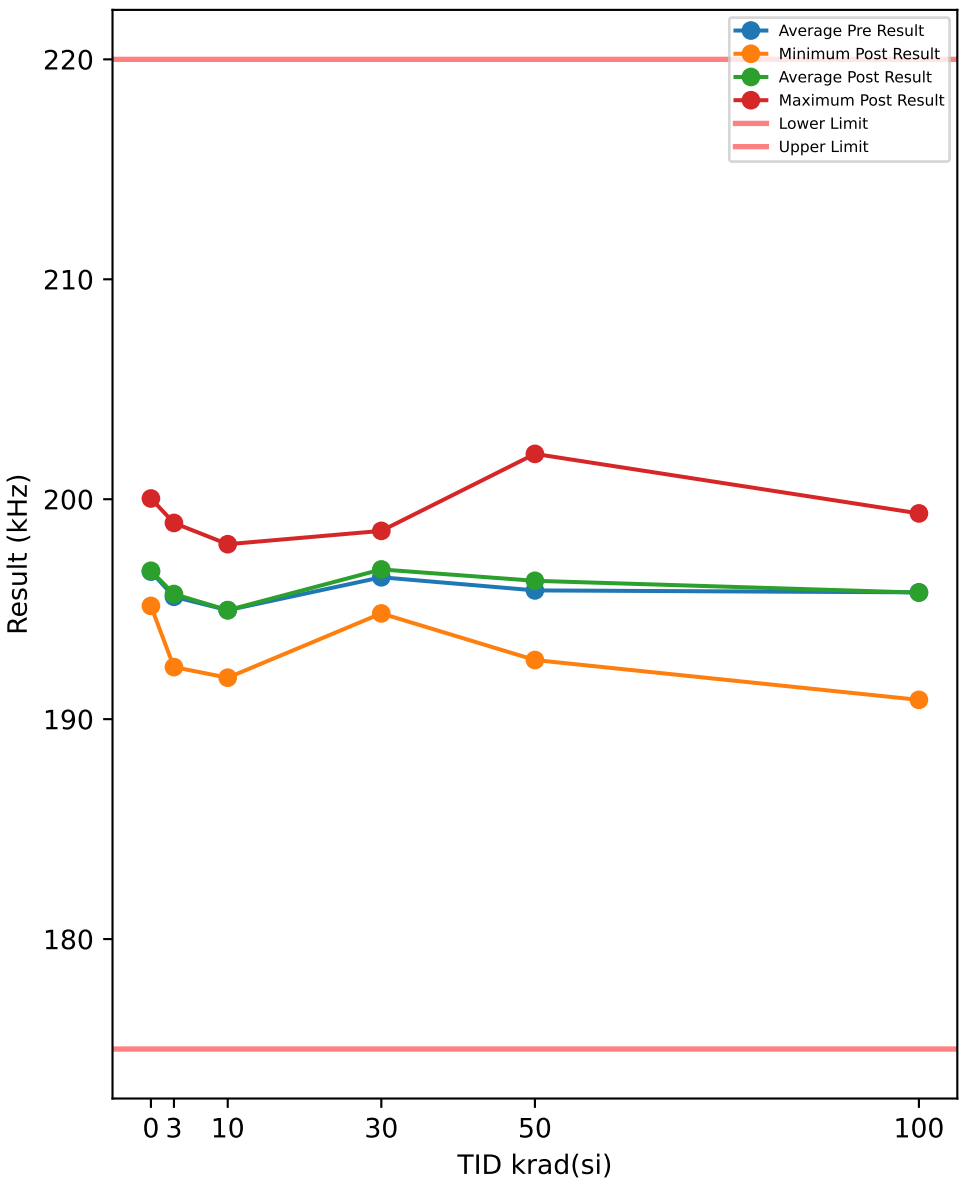
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	1759.3	1799.2	39.837
411	100	Unbiased	1721.5	1703.4	-18.116
444	30	Unbiased	1722	1703.4	-18.664
454	10	Unbiased	1740.7	1859.3	118.59
491	3	Unbiased	1740.2	1817.1	76.888
500	100	Unbiased	1667.7	1757.2	89.49
534	100	Biased	1685.8	1738.1	52.296
558	0	Correlation	1798.8	1838	39.118
563	100	Biased	1759.9	1799	39.09
570	3	Unbiased	1702.4	1667.8	-34.643
614	10	Unbiased	1882.7	1799	-83.717
675	3	Biased	1778.9	1740.5	-38.375
713	100	Unbiased	1720.7	1819.5	98.784
744	50	Biased	1721.5	1817.1	95.6
799	50	Biased	1720.7	1799	78.24
842	30	Unbiased	1721.5	1740.4	18.903
889	3	Unbiased	1739.4	1721.8	-17.672
901	3	Biased	1651	1721.7	70.668
930	50	Unbiased	1840.2	1840.3	0.111
968	100	Unbiased	1819.3	1796.7	-22.629
976	100	Unbiased	1839.4	1779.1	-60.349
981	3	Biased	1778.1	1799.1	20.973
1003	10	Biased	1721.5	1757.2	35.699
1039	3	Biased	1759.9	1721.8	-38.099
1053	100	Biased	1798.8	1840.5	41.668
1056	0	Correlation	1759.9	1701.1	-58.778
1072	10	Biased	1840.8	1840.3	-0.4644
1095	50	Unbiased	1778.1	1776.7	-1.3934
1099	0	Correlation	1703.2	1721.6	18.438
1113	3	Biased	1684.5	1721.8	37.263
1142	10	Unbiased	1819.9	1838	18.083
1154	10	Biased	1759.9	1799.2	39.283
1215	50	Unbiased	1840.8	1840.5	-0.2726
1222	100	Biased	1928.9	1861.7	-67.156
1229	50	Unbiased	1798.1	1861.7	63.649
1255	3	Unbiased	1799.4	1779.1	-20.359
1331	30	Unbiased	1703.7	1703.3	-0.4238
1359	30	Biased	1740.7	1759.6	18.878
1375	30	Unbiased	1685.8	1703.4	17.595
1398	30	Biased	1759.9	1738.1	-21.805
1411	50	Biased	1721.5	1721.8	0.2827
1465	10	Unbiased	1861.6	1799	-62.648
1474	50	Biased	1649.8	1668	18.19
1504	50	Biased	1819.9	1799	-20.822
1540	100	Biased	1778.9	1796.7	17.783
1554	3	Unbiased	1632.9	1721.6	88.641
1662	30	Biased	1882.7	1883.8	1.131
1679	10	Biased	1740.7	1719.4	-21.363
1697	10	Biased	1632.9	1685.4	52.502
1703	30	Biased	1839.4	1799	-40.462
1704	10	Unbiased	1840.2	1840.5	0.3028
1736	30	Biased	1798.1	1779	-19.104
1737	0	Correlation	1684.5	1685.4	0.9308
1748	0	Correlation	1778.9	1779.2	0.2829

Test Statistics (µA/V)

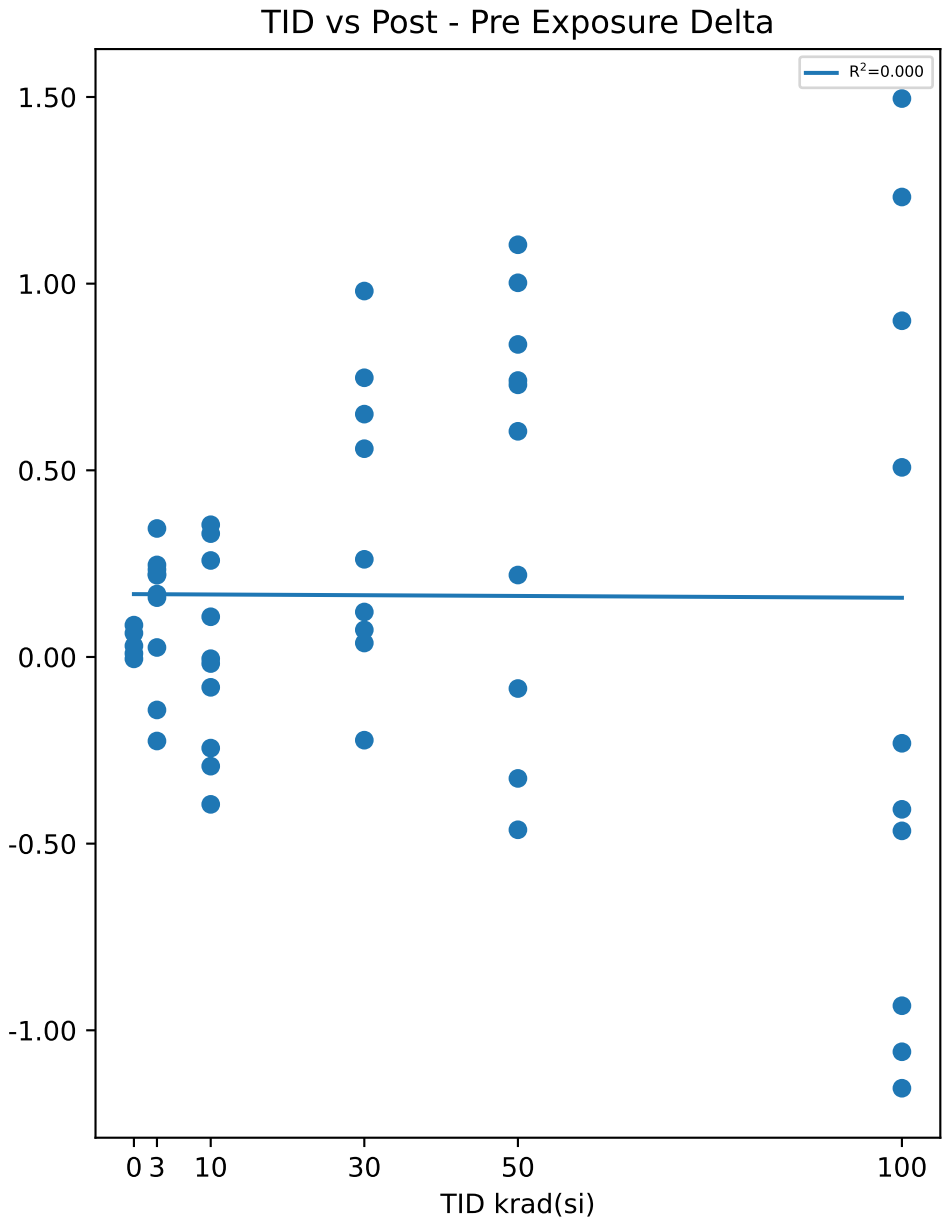
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1684.5	1745.1	1798.8	49.191	1685.4	1745	1838	62.915	-58.778	-0.00168	39.118	36.489
3	1632.9	1726.7	1799.4	56.746	1667.8	1741.2	1817.1	44.504	-38.375	14.528	88.641	50.916
10	1632.9	1784.1	1882.7	77.808	1685.4	1793.7	1859.3	57.053	-83.717	9.6264	118.59	58.145
30	1685.8	1761.5	1882.7	65.917	1703.3	1756.6	1883.8	58.74	-40.462	-4.8837	18.903	21.319
50	1649.8	1765	1840.8	62.123	1668	1792.3	1861.7	58.573	-20.822	27.342	95.6	39.707
100	1667.7	1772.1	1928.9	78.745	1703.4	1789.2	1861.7	47.293	-67.156	17.086	98.784	57.884

Device Test: 20.101 LEVEL|FREQ/RT/8/8/0/0/5/200kHz//@FSW_EXT_RT_B

TID vs Result Stats



TID vs Post - Pre Exposure Delta



Test Results (Lower Limit = 175.0, Upper Limit = 220.0 (kHz))

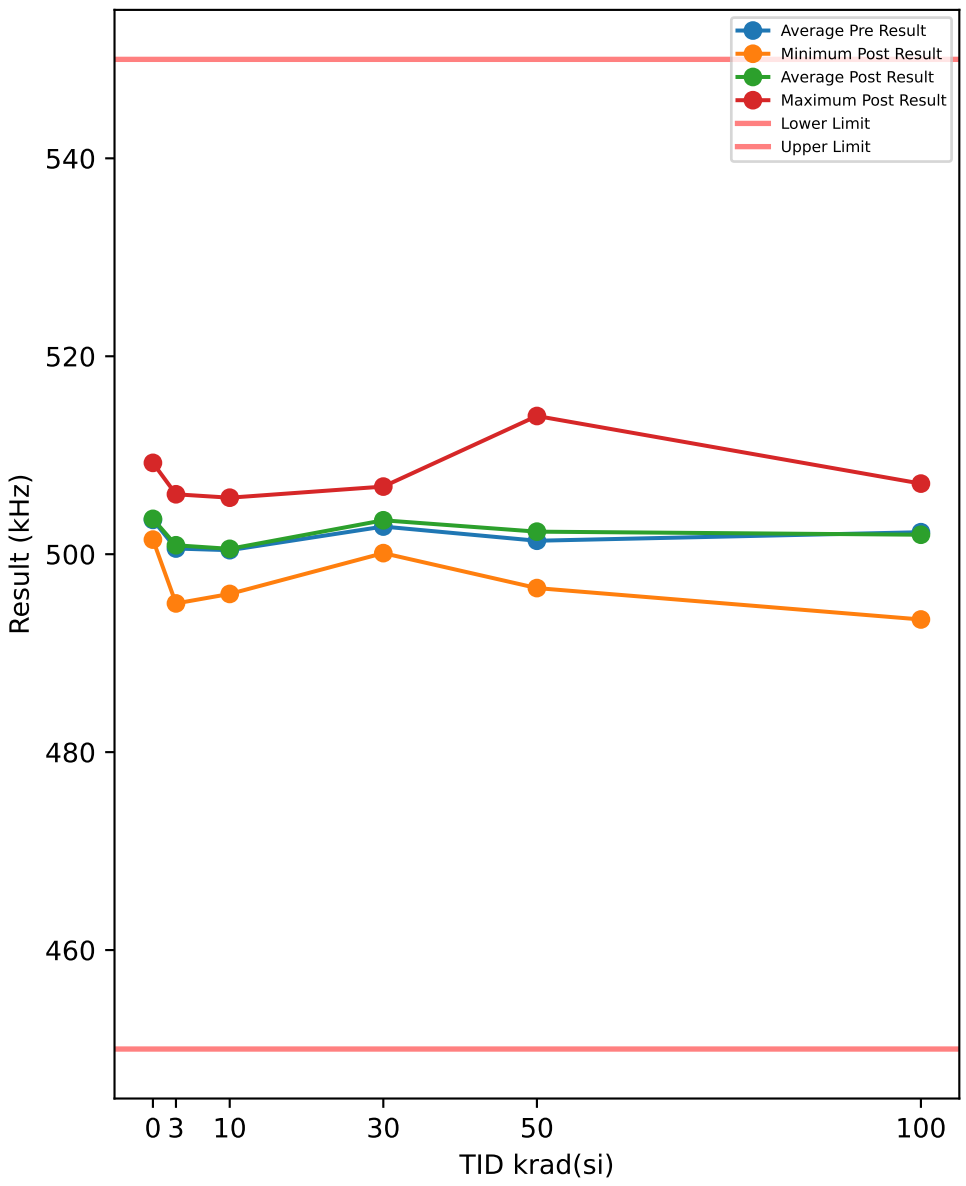
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	194.98	195.81	0.8372
411	100	Unbiased	192.03	190.88	-1.1552
444	30	Unbiased	197.91	198.56	0.6505
454	10	Unbiased	194.24	194	-0.2441
491	3	Unbiased	196.91	197.13	0.219
500	100	Unbiased	198.85	199.35	0.5079
534	100	Biased	195.68	194.74	-0.9342
558	0	Correlation	196.63	196.62	-0.0051
563	100	Biased	195.73	195.27	-0.4658
570	3	Unbiased	194.54	194.57	0.0254
614	10	Unbiased	197.97	197.95	-0.0176
675	3	Biased	198.7	198.92	0.2221
713	100	Unbiased	198.5	198.27	-0.2312
744	50	Biased	193.05	193.65	0.6045
799	50	Biased	193.15	192.69	-0.4629
842	30	Unbiased	194.25	194.81	0.5579
889	3	Unbiased	197.3	197.16	-0.1419
901	3	Biased	195.54	195.89	0.3442
930	50	Unbiased	201.33	202.06	0.729
968	100	Unbiased	193.4	194.31	0.9006
976	100	Unbiased	194.03	195.26	1.2321
981	3	Biased	195.52	195.68	0.1589
1003	10	Biased	196.23	196.23	-0.0046
1039	3	Biased	197.95	198.19	0.2342
1053	100	Biased	195.12	196.62	1.4958
1056	0	Correlation	195.92	195.98	0.0638
1072	10	Biased	196.46	196.38	-0.0813
1095	50	Unbiased	198.45	199.19	0.7405
1099	0	Correlation	200	200.03	0.0298
1113	3	Biased	192.59	192.37	-0.2251
1142	10	Unbiased	197.55	197.81	0.2585
1154	10	Biased	193.06	193.17	0.1077
1215	50	Unbiased	196.14	196.06	-0.0845
1222	100	Biased	196.2	195.14	-1.0575
1229	50	Unbiased	195.07	195.29	0.2195
1255	3	Unbiased	192.86	193.11	0.2466
1331	30	Unbiased	195.47	195.24	-0.2229
1359	30	Biased	197.34	198.32	0.9802
1375	30	Unbiased	195.85	195.89	0.0374
1398	30	Biased	197.01	197.27	0.2616
1411	50	Biased	195.21	196.21	1.0023
1465	10	Unbiased	193.51	193.84	0.3304
1474	50	Biased	195.9	195.58	-0.3253
1504	50	Biased	195.26	196.36	1.1042
1540	100	Biased	198.11	197.7	-0.4081
1554	3	Unbiased	193.71	193.87	0.1686
1662	30	Biased	196.81	197.56	0.7479
1679	10	Biased	194.89	195.25	0.3542
1697	10	Biased	193.44	193.04	-0.3948
1703	30	Biased	195.75	195.82	0.0726
1704	10	Unbiased	192.18	191.88	-0.2925
1736	30	Biased	197.67	197.79	0.1205
1737	0	Correlation	195.14	195.15	0.0095
1748	0	Correlation	195.85	195.94	0.0853

Test Statistics (kHz)

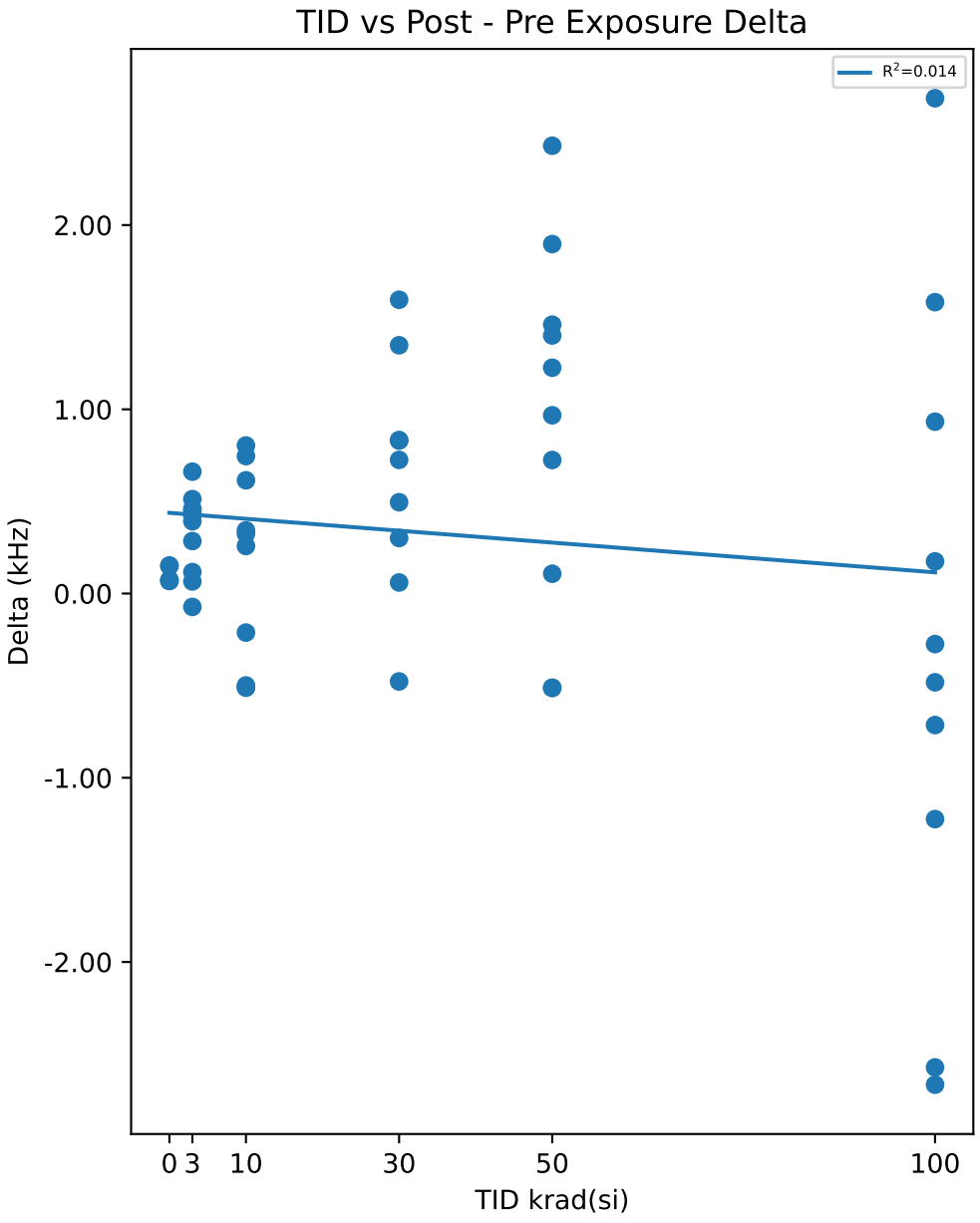
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	195.14	196.71	200	1.9159	195.15	196.75	200.03	1.911	-0.0051	0.03666	0.0853	0.03752
3	192.59	195.56	198.7	2.134	192.37	195.69	198.92	2.1908	-0.2251	0.1252	0.3442	0.18251
10	192.18	194.95	197.97	1.9982	191.88	194.95	197.95	2.0896	-0.3948	0.00159	0.3542	0.26267
30	194.25	196.45	197.91	1.2005	194.81	196.81	198.56	1.3868	-0.2229	0.35619	0.9802	0.3956
50	193.05	195.85	201.33	2.4538	192.69	196.29	202.06	2.6555	-0.4629	0.43645	1.1042	0.56179
100	192.03	195.76	198.85	2.2502	190.88	195.75	199.35	2.3935	-1.1552	-0.01156	1.4958	0.97671

Device Test: 20.103 LEVEL|FREQ/RT/8/8/0/0/5/500kHz//@FSW_EXT_RT_C

TID vs Result Stats



TID vs Post - Pre Exposure Delta



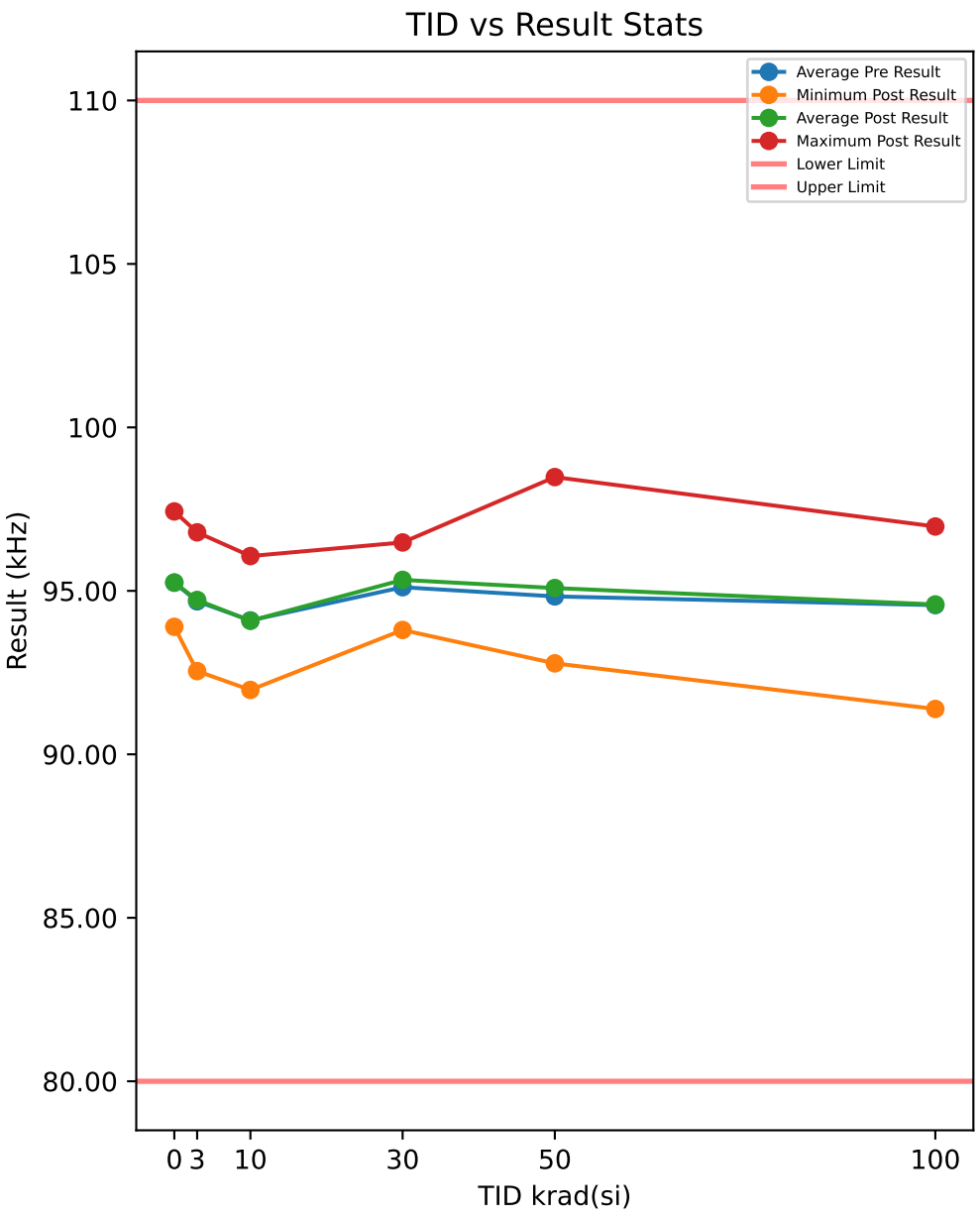
Test Results (Lower Limit = 450.0, Upper Limit = 550.0 (kHz))

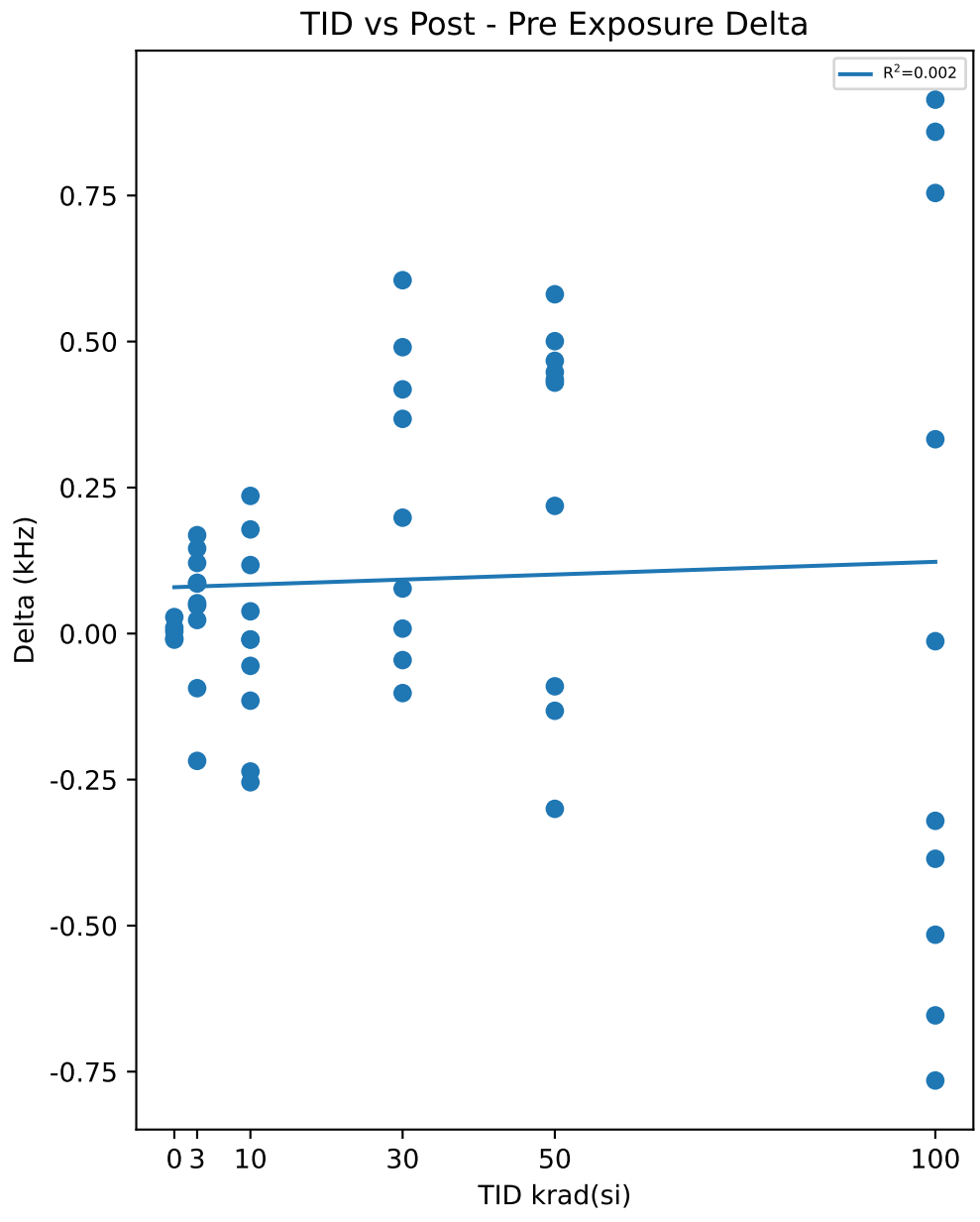
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	498.47	499.93	1.4595
411	100	Unbiased	495.98	493.4	-2.5723
444	30	Unbiased	504.94	505.77	0.8303
454	10	Unbiased	498.07	497.57	-0.4989
491	3	Unbiased	503	503.46	0.4606
500	100	Unbiased	506.88	507.05	0.1746
534	100	Biased	501.58	500.36	-1.2244
558	0	Correlation	502.76	502.83	0.075
563	100	Biased	500.85	500.37	-0.4818
570	3	Unbiased	499.96	500.41	0.4483
614	10	Unbiased	505.37	505.71	0.343
675	3	Biased	505.77	506.05	0.2847
713	100	Unbiased	507.85	507.13	-0.7139
744	50	Biased	496.72	497.69	0.9676
799	50	Biased	496.47	496.58	0.1075
842	30	Unbiased	500.31	500.8	0.4956
889	3	Unbiased	503.43	503.5	0.0656
901	3	Biased	499.95	500.38	0.4254
930	50	Unbiased	512.74	513.96	1.2258
968	100	Unbiased	497.97	498.9	0.9328
976	100	Unbiased	500.12	501.7	1.5816
981	3	Biased	500.61	501.12	0.5125
1003	10	Biased	502.65	502.98	0.325
1039	3	Biased	505.39	505.78	0.3923
1053	100	Biased	501.25	503.93	2.6885
1056	0	Correlation	502.57	502.72	0.1498
1072	10	Biased	505.47	505.26	-0.212
1095	50	Unbiased	505.88	507.28	1.4008
1099	0	Correlation	509.16	509.23	0.0691
1113	3	Biased	495.1	495.03	-0.0727
1142	10	Unbiased	504.39	505.01	0.6146
1154	10	Biased	495.76	496.02	0.2579
1215	50	Unbiased	500.93	500.41	-0.5124
1222	100	Biased	503.46	500.79	-2.666
1229	50	Unbiased	499.9	500.63	0.7248
1255	3	Unbiased	494.94	495.06	0.1166
1331	30	Unbiased	500.81	500.34	-0.4772
1359	30	Biased	503.66	505.26	1.5947
1375	30	Unbiased	500.05	500.11	0.06
1398	30	Biased	503.58	503.88	0.3014
1411	50	Biased	500.75	502.65	1.8968
1465	10	Unbiased	498.35	499.15	0.8037
1474	50	Biased	500.96	500.45	-0.5114
1504	50	Biased	500.77	503.2	2.4307
1540	100	Biased	506.3	506.03	-0.2744
1554	3	Unbiased	497.58	498.24	0.6614
1662	30	Biased	505.09	506.44	1.3477
1679	10	Biased	500.64	501.38	0.7459
1697	10	Biased	496.85	496.34	-0.5113
1703	30	Biased	500.58	501.41	0.8332
1704	10	Unbiased	496.49	495.98	-0.5082
1736	30	Biased	506.11	506.83	0.7254
1737	0	Correlation	501.45	501.6	0.1524
1748	0	Correlation	501.41	501.47	0.0679

Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	501.41	503.47	509.16	3.2422	501.47	503.57	509.23	3.2237	0.0679	0.10284	0.1524	0.044147
3	494.94	500.57	505.77	3.8817	495.03	500.9	506.05	3.9427	-0.0727	0.32947	0.6614	0.22775
10	495.76	500.4	505.47	3.8076	495.98	500.54	505.71	4.0165	-0.5113	0.13597	0.8037	0.52689
30	500.05	502.79	506.11	2.3664	500.11	503.43	506.83	2.7668	-0.4772	0.63457	1.5947	0.63373
50	496.47	501.36	512.74	4.7936	496.58	502.28	513.96	5.0676	-0.5124	0.91897	2.4307	0.98055
100	495.98	502.22	507.85	3.8902	493.4	501.97	507.13	4.2452	-2.666	-0.25553	2.6885	1.7003

Device Test: 20.107 LEVEL|FREQ/RT/8/8/0/1000/5/100kHz//@FSW_EXT_RT_A





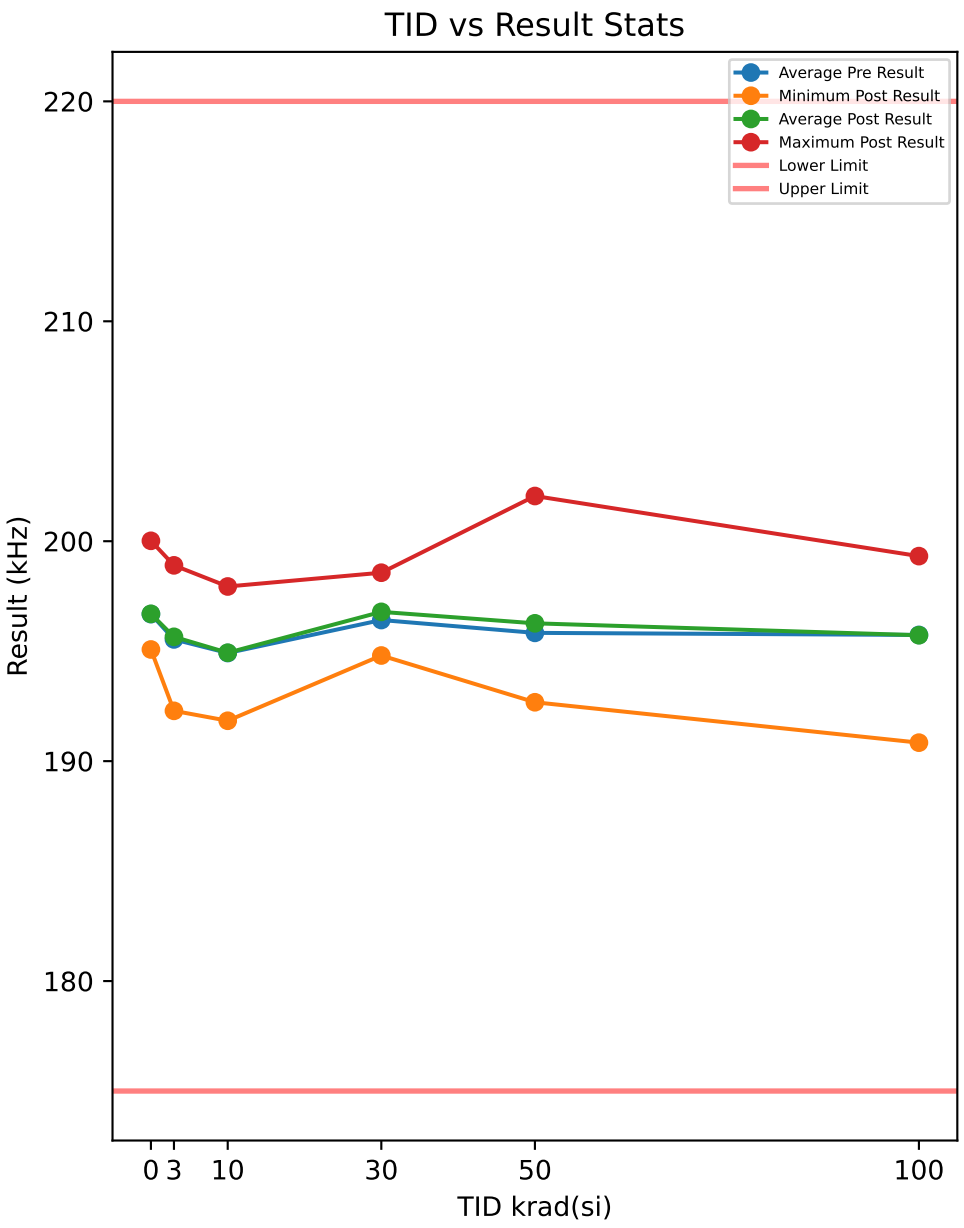
Test Results (Lower Limit = 80.0, Upper Limit = 110.0 (kHz))

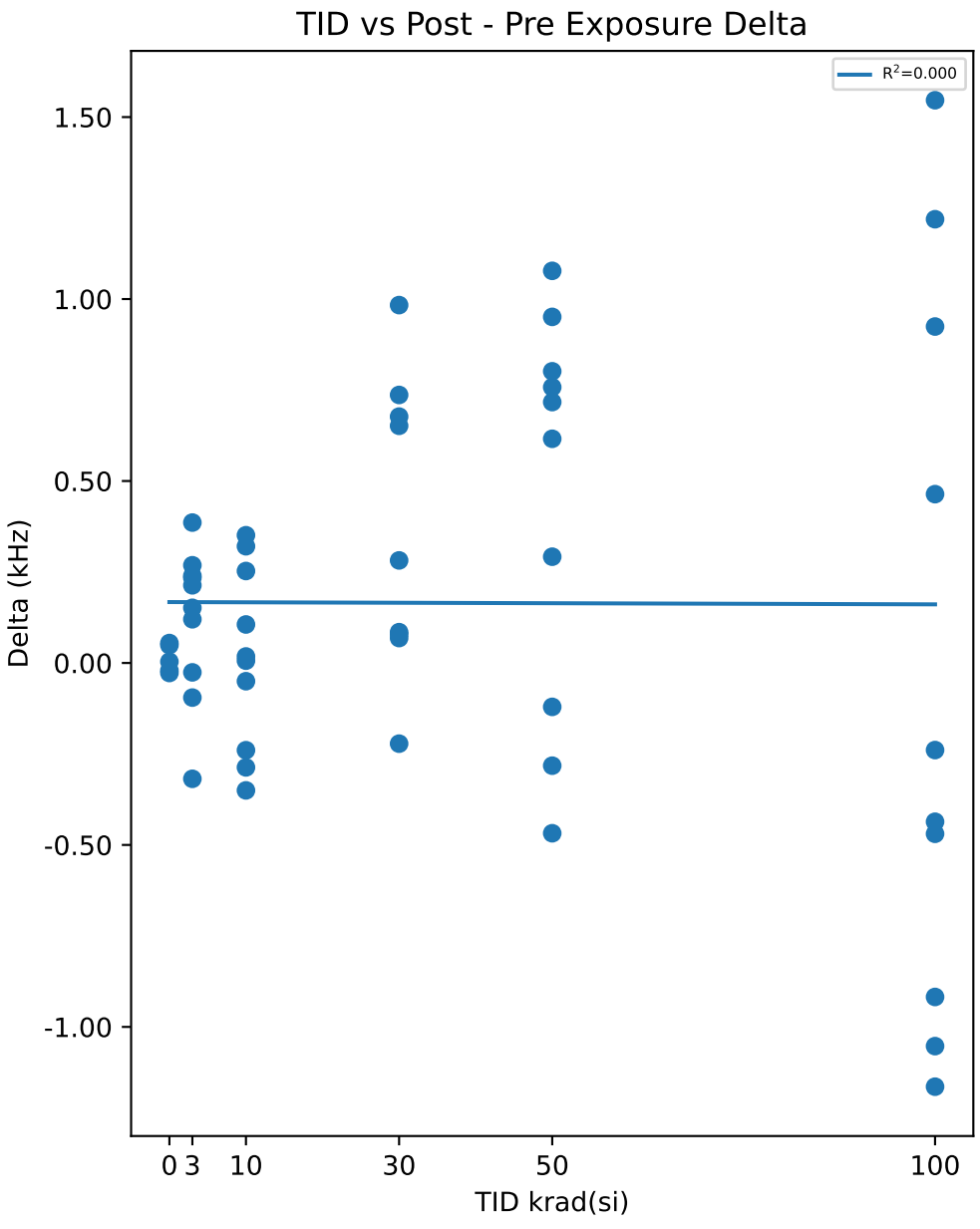
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	94.54	94.975	0.4349
411	100	Unbiased	92.152	91.387	-0.7652
444	30	Unbiased	96.063	96.481	0.4181
454	10	Unbiased	93.834	93.719	-0.1149
491	3	Unbiased	95.6	95.721	0.1209
500	100	Unbiased	96.636	96.968	0.3327
534	100	Biased	94.574	93.92	-0.6537
558	0	Correlation	95.339	95.328	-0.0104
563	100	Biased	94.931	94.545	-0.3856
570	3	Unbiased	93.761	93.848	0.087
614	10	Unbiased	95.939	95.977	0.0381
675	3	Biased	96.704	96.79	0.0857
713	100	Unbiased	96.101	96.088	-0.0131
744	50	Biased	93.088	93.535	0.4476
799	50	Biased	93.083	92.783	-0.3001
842	30	Unbiased	93.436	93.803	0.3676
889	3	Unbiased	95.758	95.665	-0.0935
901	3	Biased	94.822	94.968	0.1457
930	50	Unbiased	97.98	98.48	0.5006
968	100	Unbiased	93.074	93.829	0.7543
976	100	Unbiased	93.162	94.021	0.8591
981	3	Biased	94.594	94.617	0.0232
1003	10	Biased	95.005	94.95	-0.0553
1039	3	Biased	96.064	96.116	0.052
1053	100	Biased	94.15	95.064	0.9141
1056	0	Correlation	94.829	94.821	-0.0081
1072	10	Biased	94.627	94.617	-0.0104
1095	50	Unbiased	96.357	96.938	0.5809
1099	0	Correlation	97.401	97.429	0.0282
1113	3	Biased	92.763	92.545	-0.218
1142	10	Unbiased	95.947	96.065	0.1173
1154	10	Biased	93.181	93.171	-0.01
1215	50	Unbiased	95.275	95.184	-0.0903
1222	100	Biased	94.787	94.271	-0.5156
1229	50	Unbiased	94.257	94.475	0.2186
1255	3	Unbiased	93.202	93.25	0.0482
1331	30	Unbiased	94.597	94.495	-0.1019
1359	30	Biased	95.803	96.408	0.605
1375	30	Unbiased	95.116	95.07	-0.0454
1398	30	Biased	95.621	95.819	0.1984
1411	50	Biased	94.426	94.855	0.4296
1465	10	Unbiased	93.12	93.299	0.1783
1474	50	Biased	94.845	94.713	-0.1322
1504	50	Biased	94.453	94.92	0.467
1540	100	Biased	96.069	95.748	-0.3206
1554	3	Unbiased	93.523	93.692	0.1685
1662	30	Biased	94.974	95.465	0.4903
1679	10	Biased	93.92	94.156	0.2357
1697	10	Biased	93.156	92.92	-0.2361
1703	30	Biased	94.761	94.77	0.0085
1704	10	Unbiased	92.224	91.969	-0.2546
1736	30	Biased	95.634	95.711	0.0771
1737	0	Correlation	93.89	93.9	0.0101
1748	0	Correlation	94.791	94.795	0.0039

Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	93.89	95.25	97.401	1.3106	93.9	95.255	97.429	1.3198	-0.0104	0.00474	0.0282	0.015604
3	92.763	94.679	96.704	1.3371	92.545	94.721	96.79	1.3706	-0.218	0.04197	0.1685	0.11708
10	92.224	94.095	95.947	1.2566	91.969	94.084	96.065	1.3315	-0.2546	-0.01119	0.2357	0.16273
30	93.436	95.112	96.063	0.80082	93.803	95.336	96.481	0.88736	-0.1019	0.22419	0.605	0.2554
50	93.083	94.83	97.98	1.4627	92.783	95.086	98.48	1.6081	-0.3001	0.25566	0.5809	0.31447
100	92.152	94.563	96.636	1.4634	91.387	94.584	96.968	1.534	-0.7652	0.02064	0.9141	0.64802

Device Test: 20.109 LEVEL|FREQ/RT/8/8/0/1000/5/200kHz//@FSW_EXT_RT_B





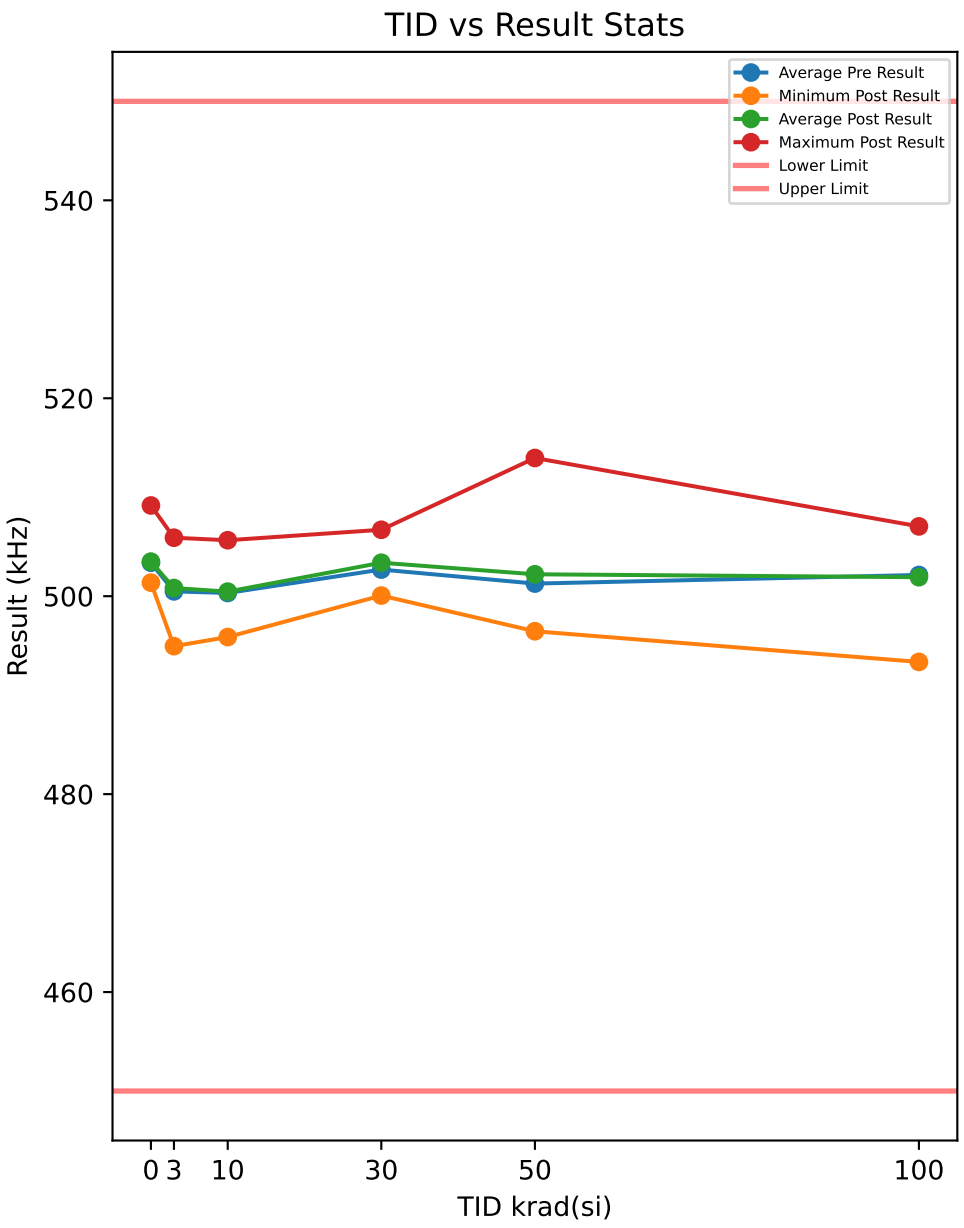
Test Results (Lower Limit = 175.0, Upper Limit = 220.0 (kHz))

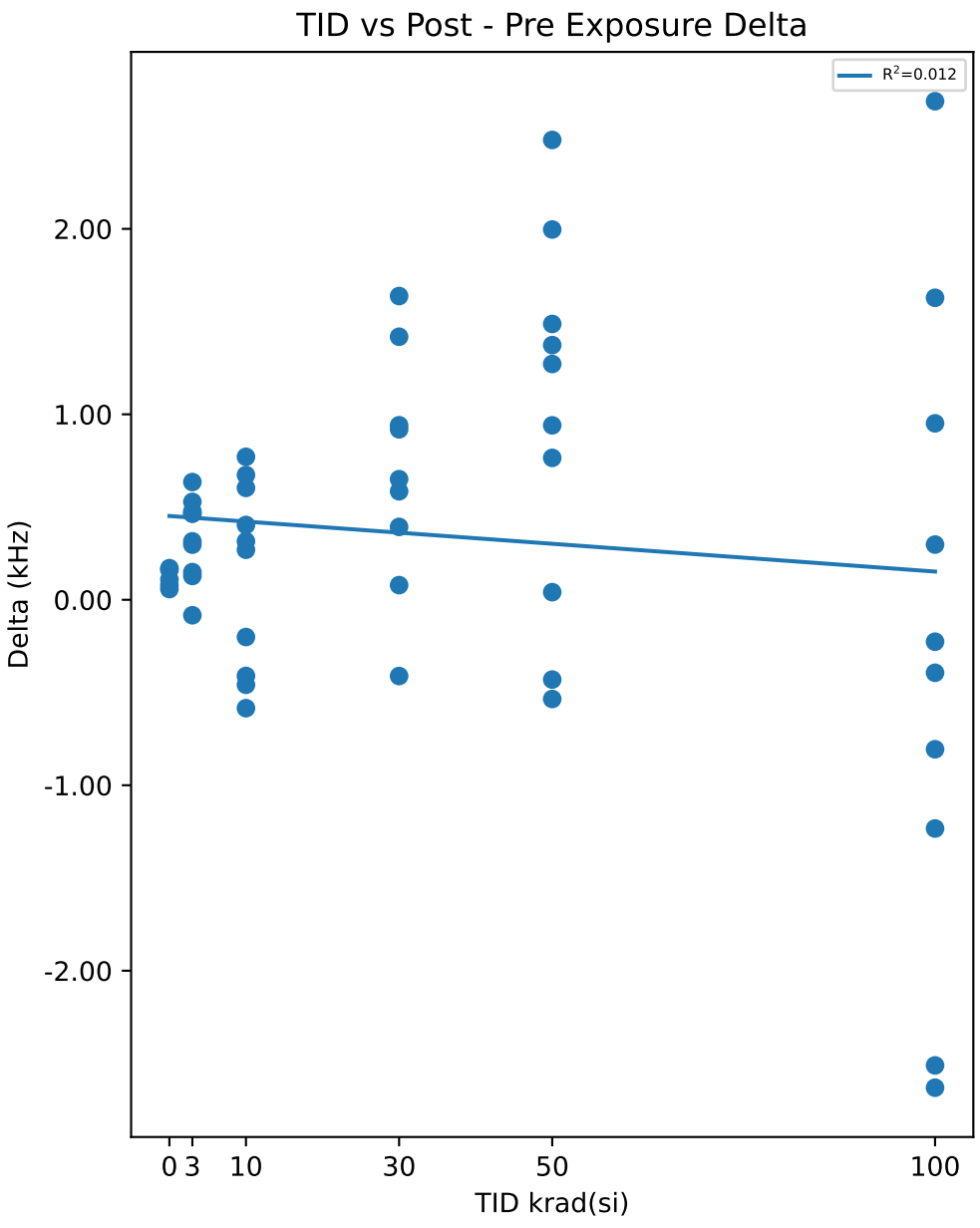
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	194.96	195.76	0.8015
411	100	Unbiased	192	190.84	-1.1643
444	30	Unbiased	197.89	198.57	0.677
454	10	Unbiased	194.23	193.99	-0.2397
491	3	Unbiased	196.85	197.12	0.2685
500	100	Unbiased	198.86	199.32	0.4639
534	100	Biased	195.62	194.7	-0.9177
558	0	Correlation	196.6	196.57	-0.0204
563	100	Biased	195.73	195.26	-0.4694
570	3	Unbiased	194.55	194.53	-0.0258
614	10	Unbiased	197.92	197.94	0.0179
675	3	Biased	198.66	198.9	0.2397
713	100	Unbiased	198.48	198.25	-0.2393
744	50	Biased	193.03	193.64	0.616
799	50	Biased	193.15	192.68	-0.4679
842	30	Unbiased	194.15	194.8	0.6517
889	3	Unbiased	197.23	197.14	-0.0951
901	3	Biased	195.51	195.9	0.3858
930	50	Unbiased	201.3	202.06	0.7578
968	100	Unbiased	193.36	194.29	0.9245
976	100	Unbiased	194.01	195.23	1.2193
981	3	Biased	195.51	195.63	0.1201
1003	10	Biased	196.17	196.17	0.0063
1039	3	Biased	197.91	198.14	0.234
1053	100	Biased	195.08	196.62	1.5463
1056	0	Correlation	195.93	195.94	0.0036
1072	10	Biased	196.41	196.36	-0.0501
1095	50	Unbiased	198.44	199.16	0.7169
1099	0	Correlation	199.96	200.02	0.0548
1113	3	Biased	192.61	192.29	-0.3183
1142	10	Unbiased	197.53	197.78	0.2527
1154	10	Biased	193.04	193.15	0.1058
1215	50	Unbiased	196.14	196.02	-0.1206
1222	100	Biased	196.14	195.09	-1.0528
1229	50	Unbiased	195	195.29	0.292
1255	3	Unbiased	192.84	193.05	0.2134
1331	30	Unbiased	195.45	195.23	-0.2217
1359	30	Biased	197.29	198.27	0.9834
1375	30	Unbiased	195.8	195.89	0.0847
1398	30	Biased	196.98	197.27	0.2818
1411	50	Biased	195.2	196.15	0.951
1465	10	Unbiased	193.47	193.79	0.3207
1474	50	Biased	195.88	195.59	-0.2822
1504	50	Biased	195.25	196.33	1.0775
1540	100	Biased	198.09	197.66	-0.4363
1554	3	Unbiased	193.67	193.83	0.1516
1662	30	Biased	196.79	197.53	0.7365
1679	10	Biased	194.86	195.21	0.351
1697	10	Biased	193.41	193.06	-0.3501
1703	30	Biased	195.72	195.79	0.0685
1704	10	Unbiased	192.12	191.84	-0.2869
1736	30	Biased	197.67	197.75	0.0786
1737	0	Correlation	195.1	195.08	-0.0275
1748	0	Correlation	195.83	195.88	0.049

Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	195.1	196.69	199.96	1.9071	195.08	196.7	200.02	1.931	-0.0275	0.0119	0.0548	0.038345
3	192.61	195.53	198.66	2.117	192.29	195.65	198.9	2.2084	-0.3183	0.11739	0.3858	0.20798
10	192.12	194.92	197.92	1.9952	191.84	194.93	197.94	2.09	-0.3501	0.01276	0.351	0.25048
30	194.15	196.42	197.89	1.2193	194.8	196.79	198.57	1.3809	-0.2217	0.37117	0.9834	0.403
50	193.03	195.83	201.3	2.4505	192.68	196.27	202.06	2.6534	-0.4679	0.4342	1.0775	0.54656
100	192	195.74	198.86	2.261	190.84	195.73	199.32	2.3961	-1.1643	-0.01258	1.5463	0.98433

Device Test: 20.111 LEVEL|FREQ/RT/8/8/0/1000/5/500kHz//@FSW_EXT_RT_C





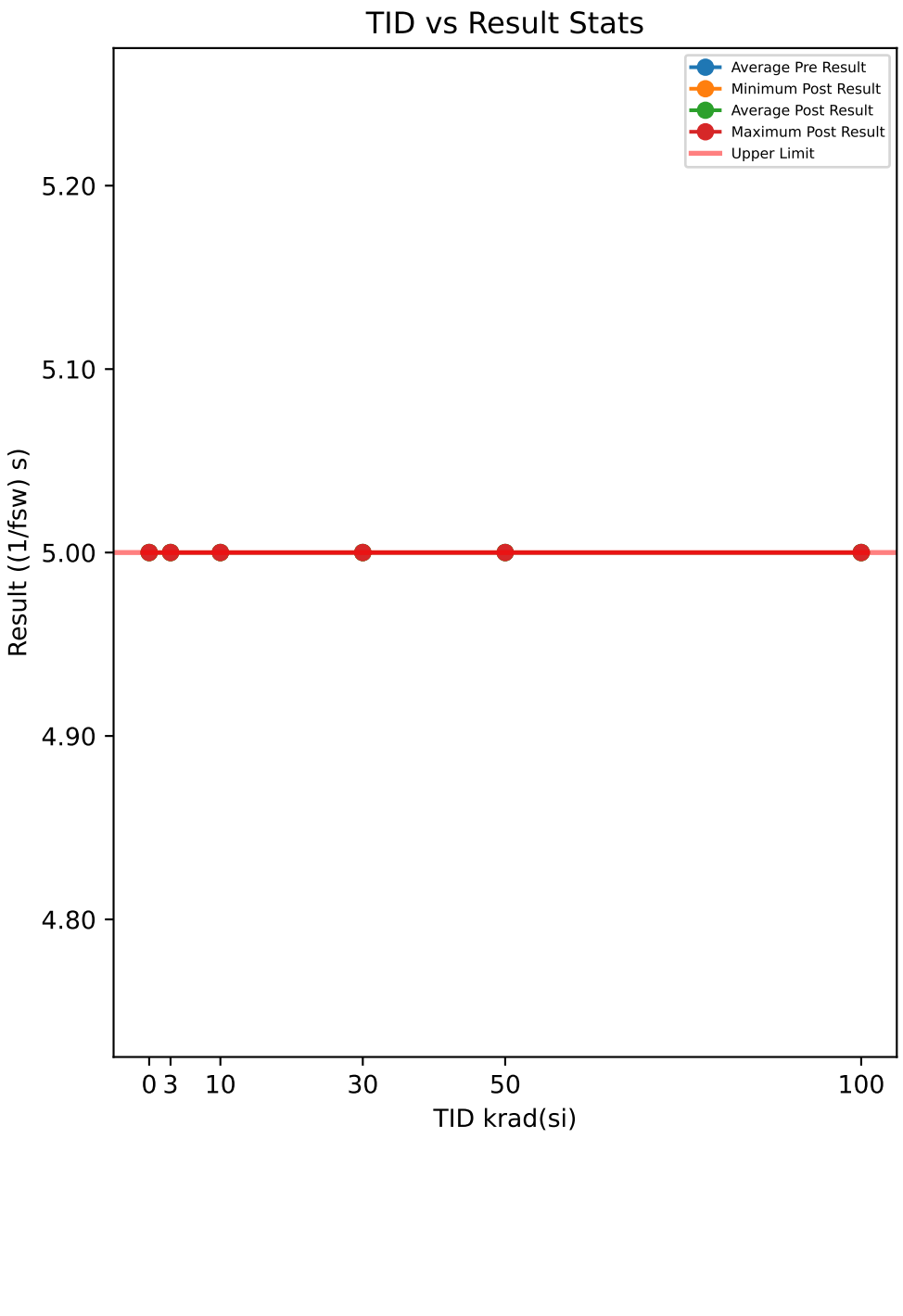
Test Results (Lower Limit = 450.0, Upper Limit = 550.0 (kHz))

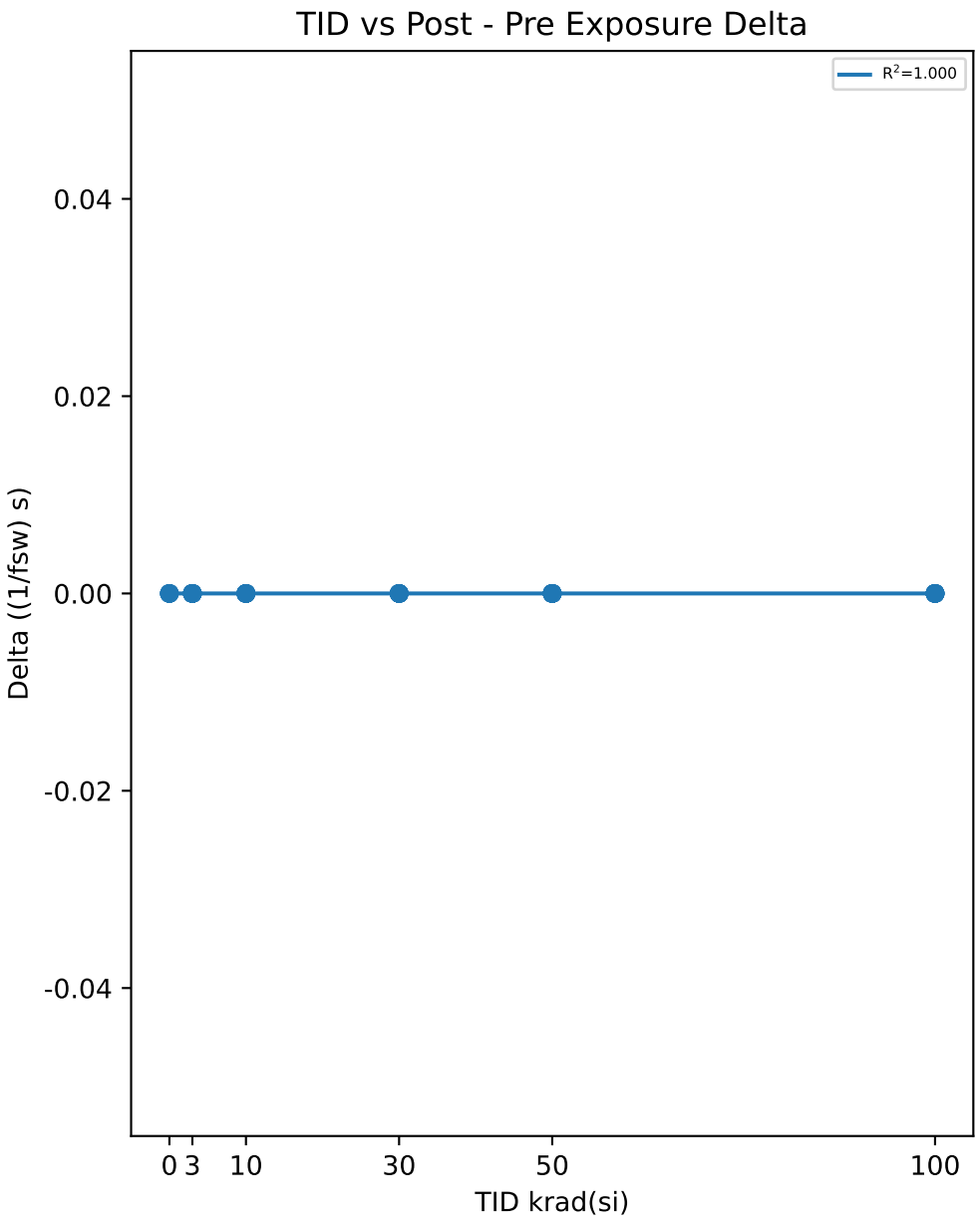
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	498.45	499.82	1.3732
411	100	Unbiased	495.87	493.36	-2.5105
444	30	Unbiased	504.84	505.76	0.9191
454	10	Unbiased	497.91	497.5	-0.4106
491	3	Unbiased	502.92	503.38	0.4651
500	100	Unbiased	506.76	507.05	0.2977
534	100	Biased	501.56	500.33	-1.2333
558	0	Correlation	502.7	502.81	0.1096
563	100	Biased	500.78	500.39	-0.3935
570	3	Unbiased	499.92	500.38	0.4647
614	10	Unbiased	505.25	505.65	0.4034
675	3	Biased	505.61	505.91	0.2972
713	100	Unbiased	507.79	506.98	-0.8059
744	50	Biased	496.68	497.62	0.9406
799	50	Biased	496.42	496.46	0.0411
842	30	Unbiased	500.2	500.79	0.585
889	3	Unbiased	503.26	503.41	0.1493
901	3	Biased	499.87	500.35	0.4774
930	50	Unbiased	512.69	513.97	1.2713
968	100	Unbiased	497.92	498.87	0.9513
976	100	Unbiased	500.02	501.65	1.6283
981	3	Biased	500.51	501.04	0.5278
1003	10	Biased	502.59	502.9	0.3153
1039	3	Biased	505.35	505.66	0.3152
1053	100	Biased	501.18	503.87	2.6881
1056	0	Correlation	502.48	502.64	0.1612
1072	10	Biased	505.39	505.19	-0.2007
1095	50	Unbiased	505.8	507.29	1.4872
1099	0	Correlation	509	509.17	0.1705
1113	3	Biased	495.04	494.95	-0.0834
1142	10	Unbiased	504.37	504.97	0.6033
1154	10	Biased	495.68	495.95	0.2697
1215	50	Unbiased	500.87	500.34	-0.5349
1222	100	Biased	503.41	500.78	-2.6307
1229	50	Unbiased	499.75	500.51	0.7652
1255	3	Unbiased	494.87	495	0.1283
1331	30	Unbiased	500.69	500.28	-0.4111
1359	30	Biased	503.55	505.19	1.6377
1375	30	Unbiased	499.98	500.06	0.079
1398	30	Biased	503.47	503.86	0.3929
1411	50	Biased	500.57	502.57	1.9965
1465	10	Unbiased	498.28	499.05	0.7708
1474	50	Biased	500.85	500.42	-0.4302
1504	50	Biased	500.67	503.15	2.4794
1540	100	Biased	506.15	505.93	-0.226
1554	3	Unbiased	497.53	498.16	0.6349
1662	30	Biased	504.98	506.39	1.4183
1679	10	Biased	500.62	501.3	0.6727
1697	10	Biased	496.71	496.25	-0.4583
1703	30	Biased	500.45	501.39	0.9411
1704	10	Unbiased	496.45	495.87	-0.5845
1736	30	Biased	506.06	506.71	0.6504
1737	0	Correlation	501.41	501.48	0.0793
1748	0	Correlation	501.31	501.37	0.0578

Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	501.31	503.38	509	3.2016	501.37	503.49	509.17	3.2379	0.0578	0.11568	0.1705	0.049467
3	494.87	500.49	505.61	3.862	494.95	500.82	505.91	3.9227	-0.0834	0.33765	0.6349	0.21989
10	495.68	500.33	505.39	3.8159	495.87	500.46	505.65	4.0301	-0.5845	0.13811	0.7708	0.50721
30	499.98	502.69	506.06	2.3747	500.06	503.38	506.71	2.7537	-0.4111	0.69027	1.6377	0.63548
50	496.42	501.28	512.69	4.7965	496.46	502.21	513.97	5.1033	-0.5349	0.93894	2.4794	0.99856
100	495.87	502.14	507.79	3.8825	493.36	501.92	507.05	4.2256	-2.6307	-0.22345	2.6881	1.6987

Device Test: 20.114 FREQ|DETECTION/SYNC/8/8/0/0/5/100kHz//@T_SYNC_DET





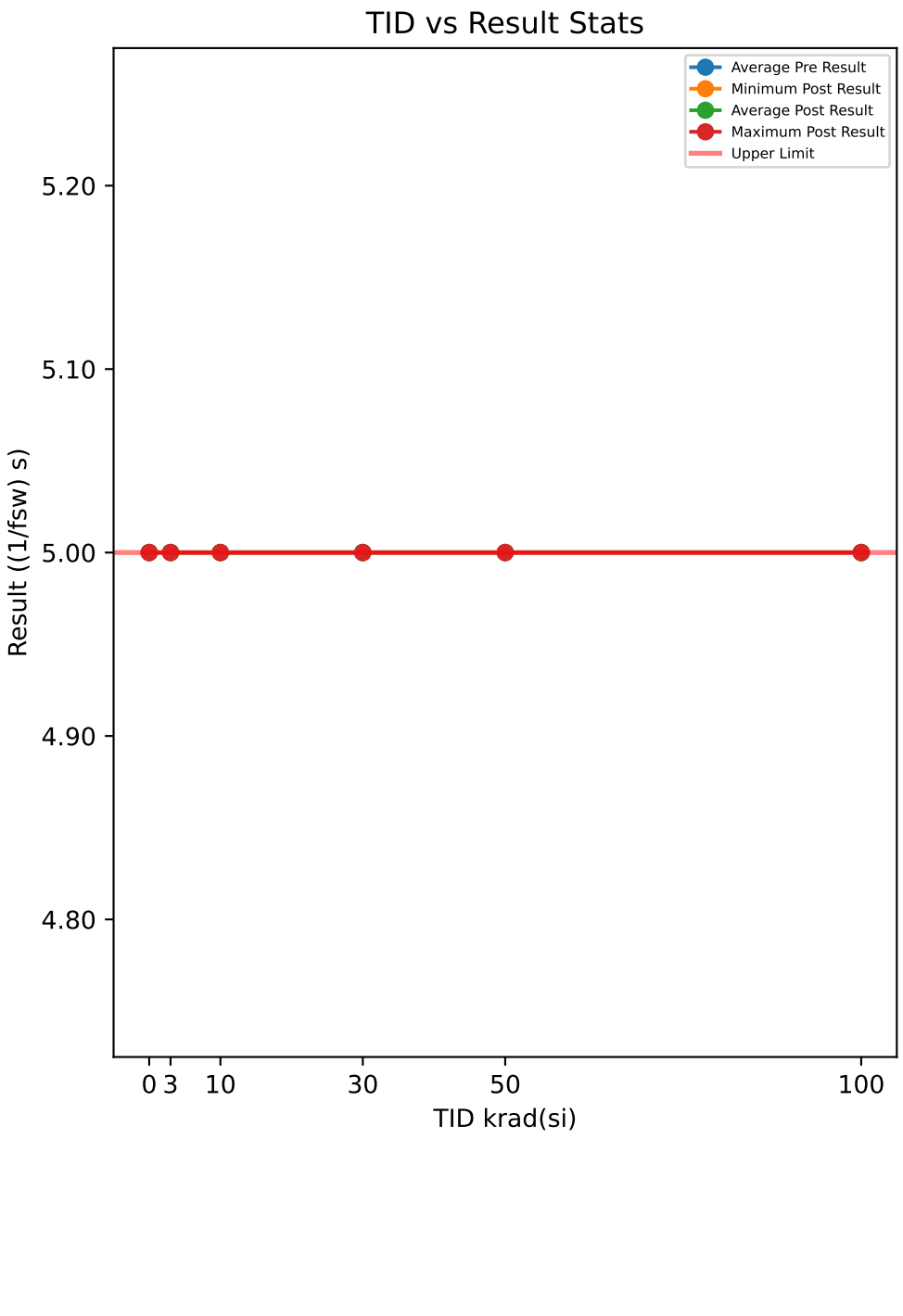
Test Results (Upper Limit = 5.0 ((1/fsw) s))

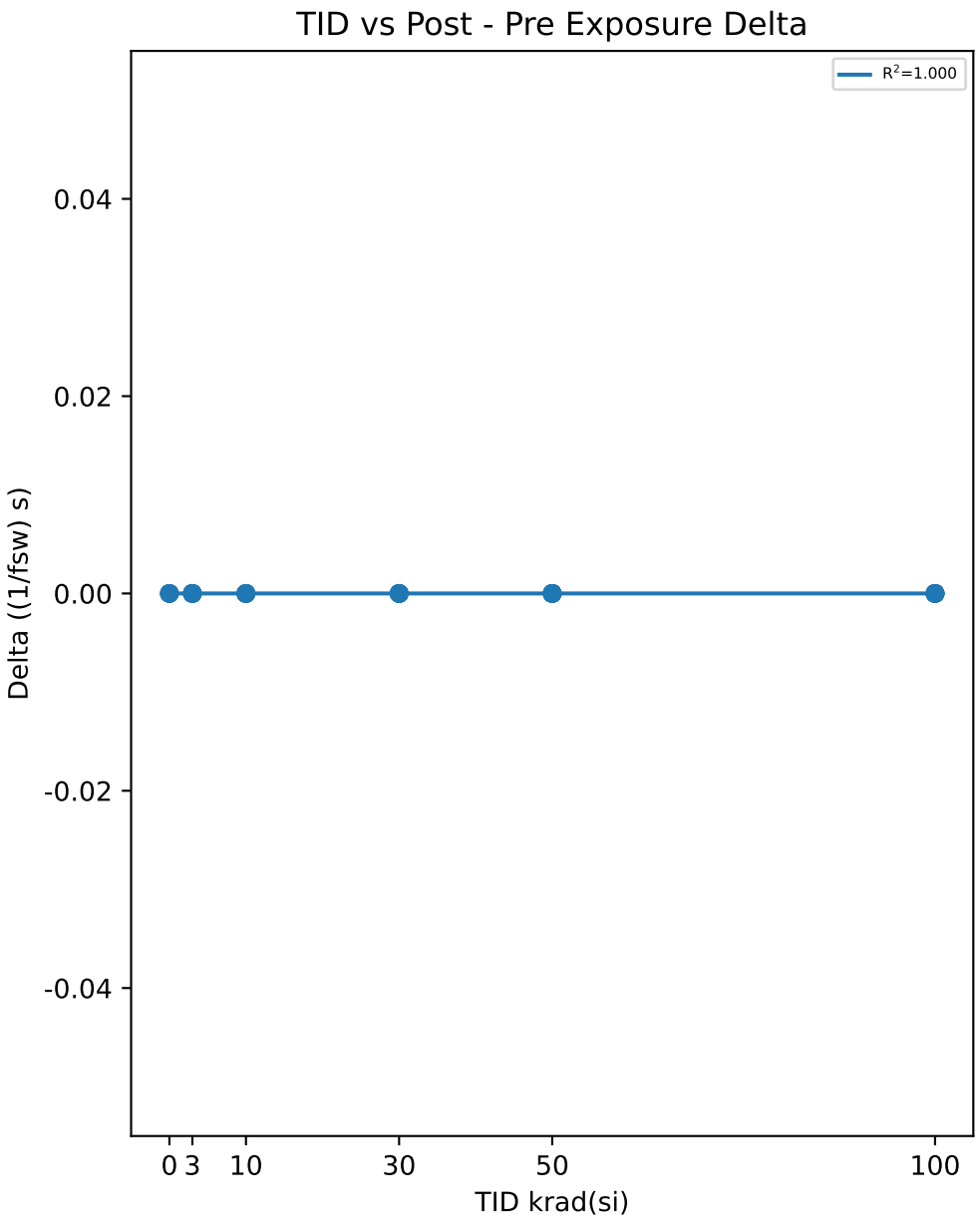
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	5	5	0
411	100	Unbiased	5	5	0
444	30	Unbiased	5	5	0
454	10	Unbiased	5	5	0
491	3	Unbiased	5	5	0
500	100	Unbiased	5	5	0
534	100	Biased	5	5	0
558	0	Correlation	5	5	0
563	100	Biased	5	5	0
570	3	Unbiased	5	5	0
614	10	Unbiased	5	5	0
675	3	Biased	5	5	0
713	100	Unbiased	5	5	0
744	50	Biased	5	5	0
799	50	Biased	5	5	0
842	30	Unbiased	5	5	0
889	3	Unbiased	5	5	0
901	3	Biased	5	5	0
930	50	Unbiased	5	5	0
968	100	Unbiased	5	5	0
976	100	Unbiased	5	5	0
981	3	Biased	5	5	0
1003	10	Biased	5	5	0
1039	3	Biased	5	5	0
1053	100	Biased	5	5	0
1056	0	Correlation	5	5	0
1072	10	Biased	5	5	0
1095	50	Unbiased	5	5	0
1099	0	Correlation	5	5	0
1113	3	Biased	5	5	0
1142	10	Unbiased	5	5	0
1154	10	Biased	5	5	0
1215	50	Unbiased	5	5	0
1222	100	Biased	5	5	0
1229	50	Unbiased	5	5	0
1255	3	Unbiased	5	5	0
1331	30	Unbiased	5	5	0
1359	30	Biased	5	5	0
1375	30	Unbiased	5	5	0
1398	30	Biased	5	5	0
1411	50	Biased	5	5	0
1465	10	Unbiased	5	5	0
1474	50	Biased	5	5	0
1504	50	Biased	5	5	0
1540	100	Biased	5	5	0
1554	3	Unbiased	5	5	0
1662	30	Biased	5	5	0
1679	10	Biased	5	5	0
1697	10	Biased	5	5	0
1703	30	Biased	5	5	0
1704	10	Unbiased	5	5	0
1736	30	Biased	5	5	0
1737	0	Correlation	5	5	0
1748	0	Correlation	5	5	0

Test Statistics ((1/fsw) s)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	5	5	5	0	5	5	5	0	0	0	0	0
3	5	5	5	0	5	5	5	0	0	0	0	0
10	5	5	5	0	5	5	5	0	0	0	0	0
30	5	5	5	0	5	5	5	0	0	0	0	0
50	5	5	5	0	5	5	5	0	0	0	0	0
100	5	5	5	0	5	5	5	0	0	0	0	0

Device Test: 20.116 FREQ|DETECTION/SYNC/8/8/0/0/5/200kHz//@T_SYNC_DET





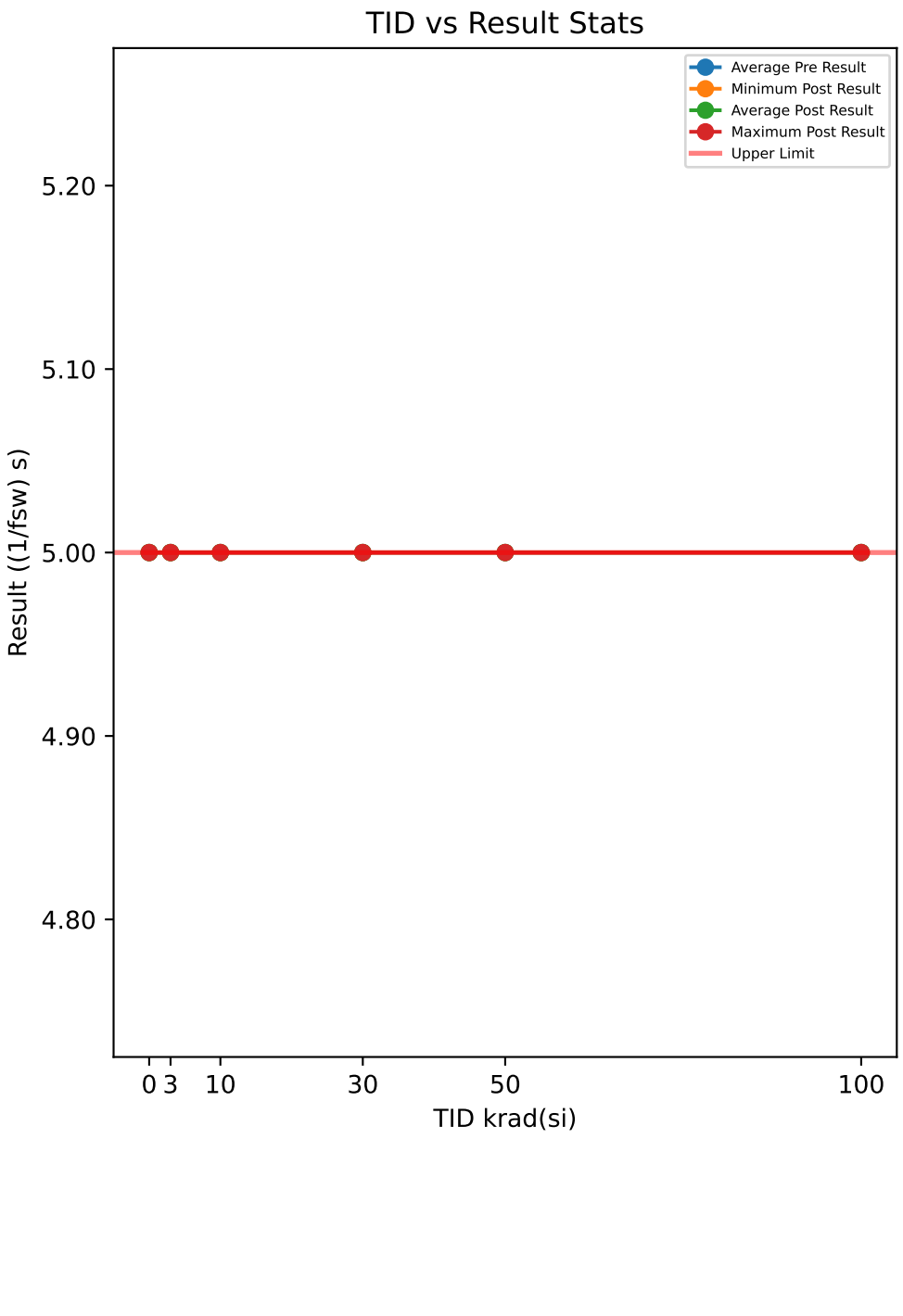
Test Results (Upper Limit = 5.0 ((1/fsw) s))

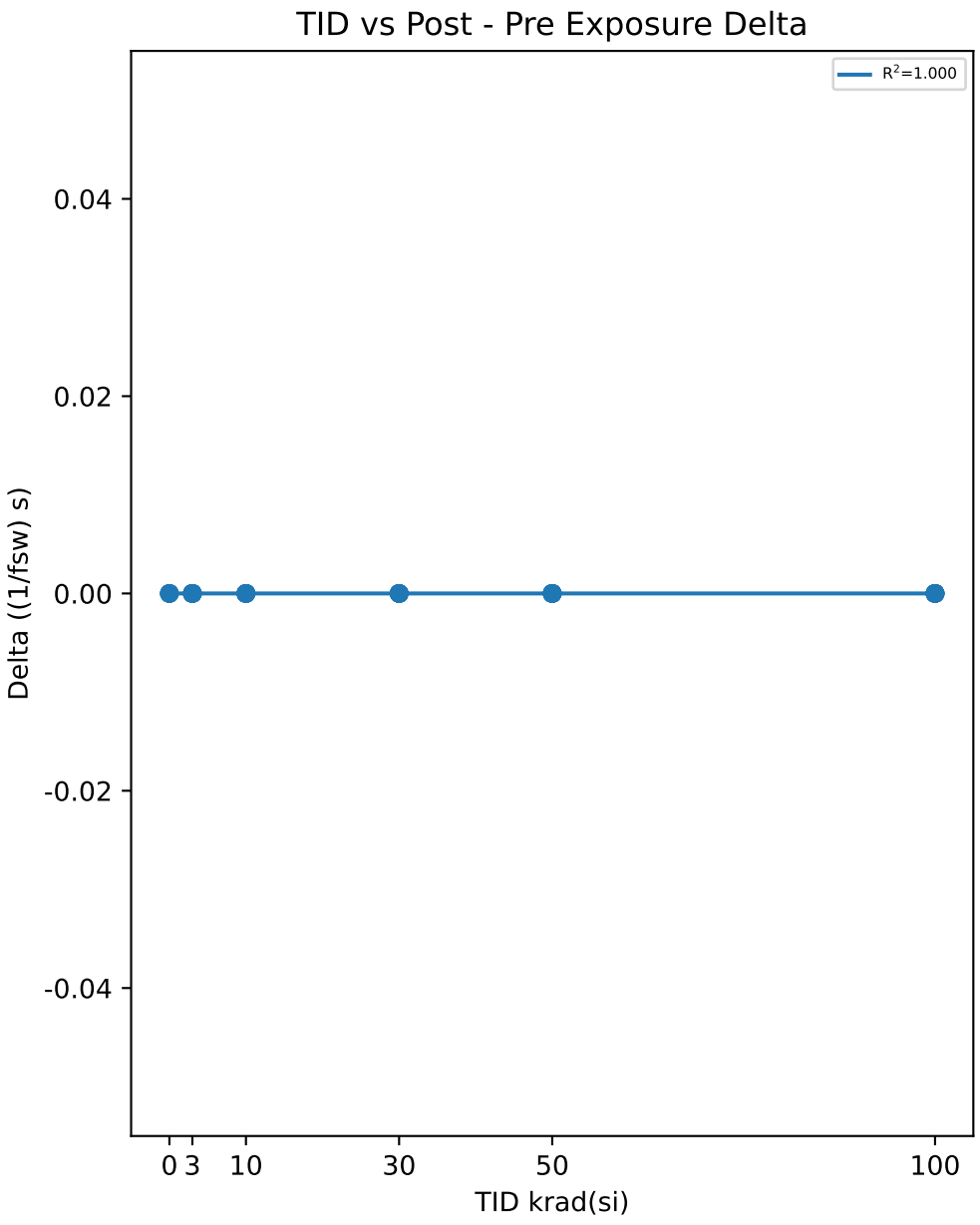
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	5	5	0
411	100	Unbiased	5	5	0
444	30	Unbiased	5	5	0
454	10	Unbiased	5	5	0
491	3	Unbiased	5	5	0
500	100	Unbiased	5	5	0
534	100	Biased	5	5	0
558	0	Correlation	5	5	0
563	100	Biased	5	5	0
570	3	Unbiased	5	5	0
614	10	Unbiased	5	5	0
675	3	Biased	5	5	0
713	100	Unbiased	5	5	0
744	50	Biased	5	5	0
799	50	Biased	5	5	0
842	30	Unbiased	5	5	0
889	3	Unbiased	5	5	0
901	3	Biased	5	5	0
930	50	Unbiased	5	5	0
968	100	Unbiased	5	5	0
976	100	Unbiased	5	5	0
981	3	Biased	5	5	0
1003	10	Biased	5	5	0
1039	3	Biased	5	5	0
1053	100	Biased	5	5	0
1056	0	Correlation	5	5	0
1072	10	Biased	5	5	0
1095	50	Unbiased	5	5	0
1099	0	Correlation	5	5	0
1113	3	Biased	5	5	0
1142	10	Unbiased	5	5	0
1154	10	Biased	5	5	0
1215	50	Unbiased	5	5	0
1222	100	Biased	5	5	0
1229	50	Unbiased	5	5	0
1255	3	Unbiased	5	5	0
1331	30	Unbiased	5	5	0
1359	30	Biased	5	5	0
1375	30	Unbiased	5	5	0
1398	30	Biased	5	5	0
1411	50	Biased	5	5	0
1465	10	Unbiased	5	5	0
1474	50	Biased	5	5	0
1504	50	Biased	5	5	0
1540	100	Biased	5	5	0
1554	3	Unbiased	5	5	0
1662	30	Biased	5	5	0
1679	10	Biased	5	5	0
1697	10	Biased	5	5	0
1703	30	Biased	5	5	0
1704	10	Unbiased	5	5	0
1736	30	Biased	5	5	0
1737	0	Correlation	5	5	0
1748	0	Correlation	5	5	0

Test Statistics ((1/fsw) s)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	5	5	5	0	5	5	5	0	0	0	0	0
3	5	5	5	0	5	5	5	0	0	0	0	0
10	5	5	5	0	5	5	5	0	0	0	0	0
30	5	5	5	0	5	5	5	0	0	0	0	0
50	5	5	5	0	5	5	5	0	0	0	0	0
100	5	5	5	0	5	5	5	0	0	0	0	0

Device Test: 20.118 FREQ|DETECTION/SYNC/8/8/0/0/5/500kHz//@T_SYNC_DET





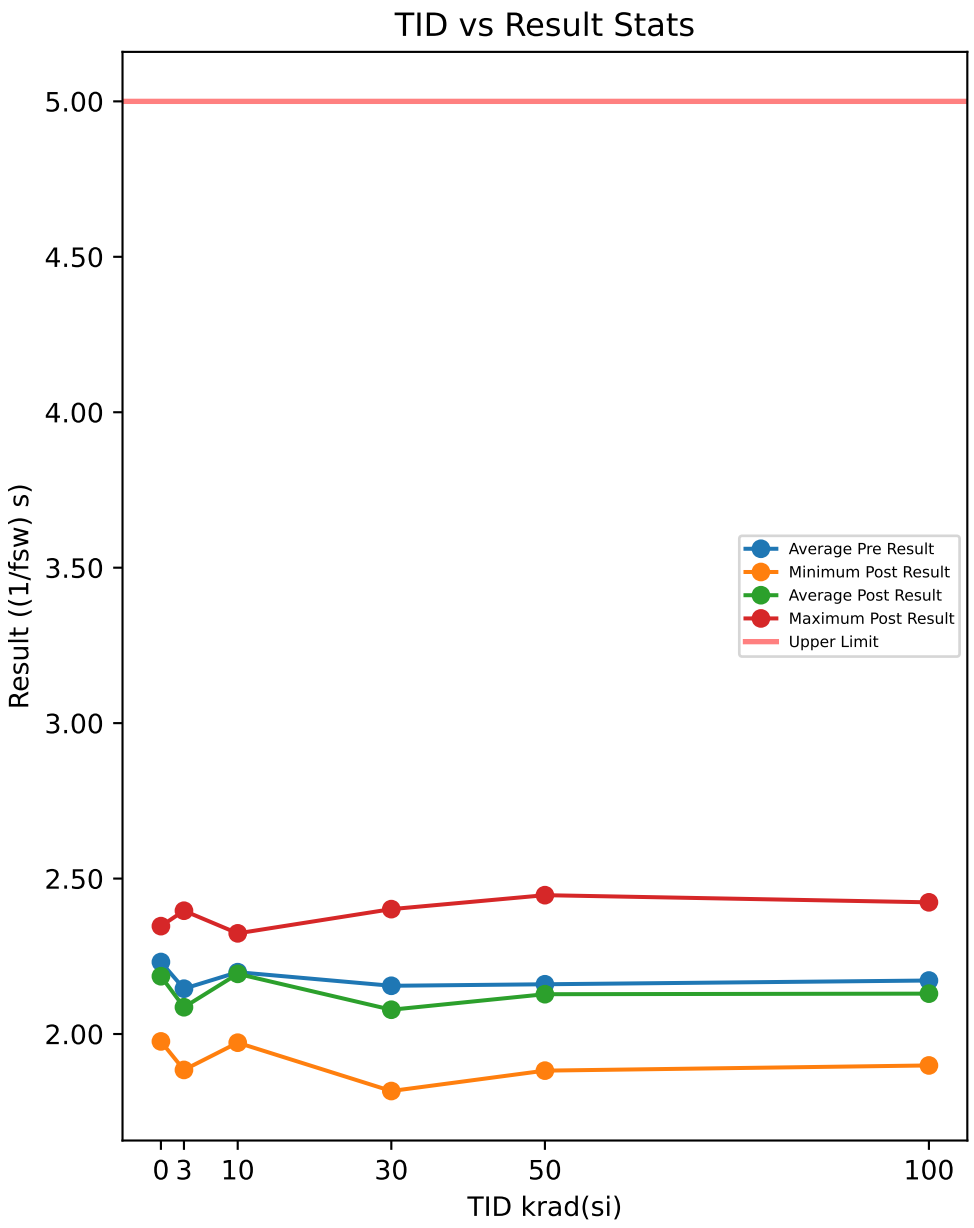
Test Results (Upper Limit = 5.0 ((1/fsw) s))

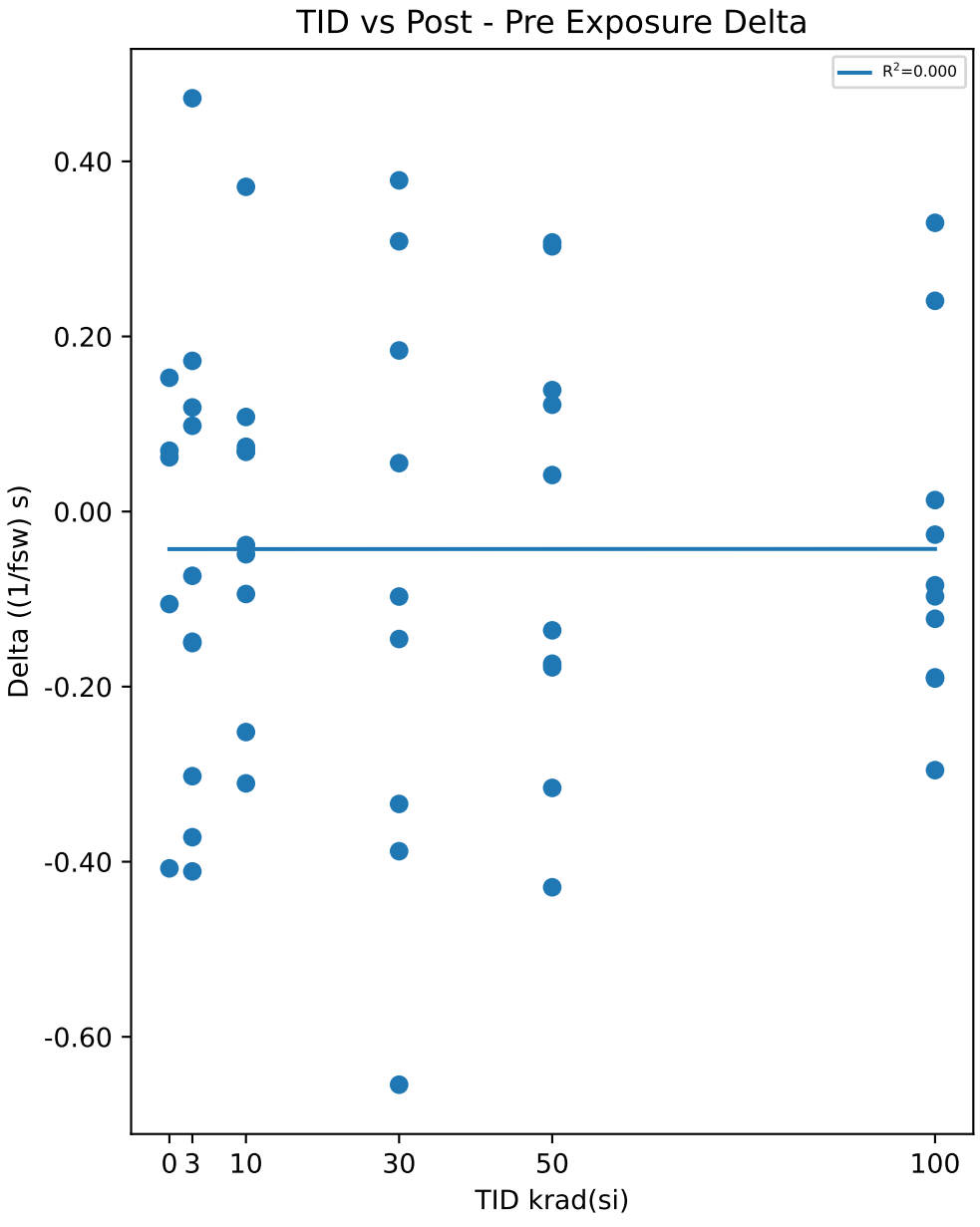
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	5	5	0
411	100	Unbiased	5	5	0
444	30	Unbiased	5	5	0
454	10	Unbiased	5	5	0
491	3	Unbiased	5	5	0
500	100	Unbiased	5	5	0
534	100	Biased	5	5	0
558	0	Correlation	5	5	0
563	100	Biased	5	5	0
570	3	Unbiased	5	5	0
614	10	Unbiased	5	5	0
675	3	Biased	5	5	0
713	100	Unbiased	5	5	0
744	50	Biased	5	5	0
799	50	Biased	5	5	0
842	30	Unbiased	5	5	0
889	3	Unbiased	5	5	0
901	3	Biased	5	5	0
930	50	Unbiased	5	5	0
968	100	Unbiased	5	5	0
976	100	Unbiased	5	5	0
981	3	Biased	5	5	0
1003	10	Biased	5	5	0
1039	3	Biased	5	5	0
1053	100	Biased	5	5	0
1056	0	Correlation	5	5	0
1072	10	Biased	5	5	0
1095	50	Unbiased	5	5	0
1099	0	Correlation	5	5	0
1113	3	Biased	5	5	0
1142	10	Unbiased	5	5	0
1154	10	Biased	5	5	0
1215	50	Unbiased	5	5	0
1222	100	Biased	5	5	0
1229	50	Unbiased	5	5	0
1255	3	Unbiased	5	5	0
1331	30	Unbiased	5	5	0
1359	30	Biased	5	5	0
1375	30	Unbiased	5	5	0
1398	30	Biased	5	5	0
1411	50	Biased	5	5	0
1465	10	Unbiased	5	5	0
1474	50	Biased	5	5	0
1504	50	Biased	5	5	0
1540	100	Biased	5	5	0
1554	3	Unbiased	5	5	0
1662	30	Biased	5	5	0
1679	10	Biased	5	5	0
1697	10	Biased	5	5	0
1703	30	Biased	5	5	0
1704	10	Unbiased	5	5	0
1736	30	Biased	5	5	0
1737	0	Correlation	5	5	0
1748	0	Correlation	5	5	0

Test Statistics ((1/fsw) s)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	5	5	5	0	5	5	5	0	0	0	0	0
3	5	5	5	0	5	5	5	0	0	0	0	0
10	5	5	5	0	5	5	5	0	0	0	0	0
30	5	5	5	0	5	5	5	0	0	0	0	0
50	5	5	5	0	5	5	5	0	0	0	0	0
100	5	5	5	0	5	5	5	0	0	0	0	0

Device Test: 20.120 FREQ|DETECTION/RT/8/8/0/0/5/100kHz//@T_INT_CLK_DET





Test Results (Upper Limit = 5.0 ((1/fsw) s))

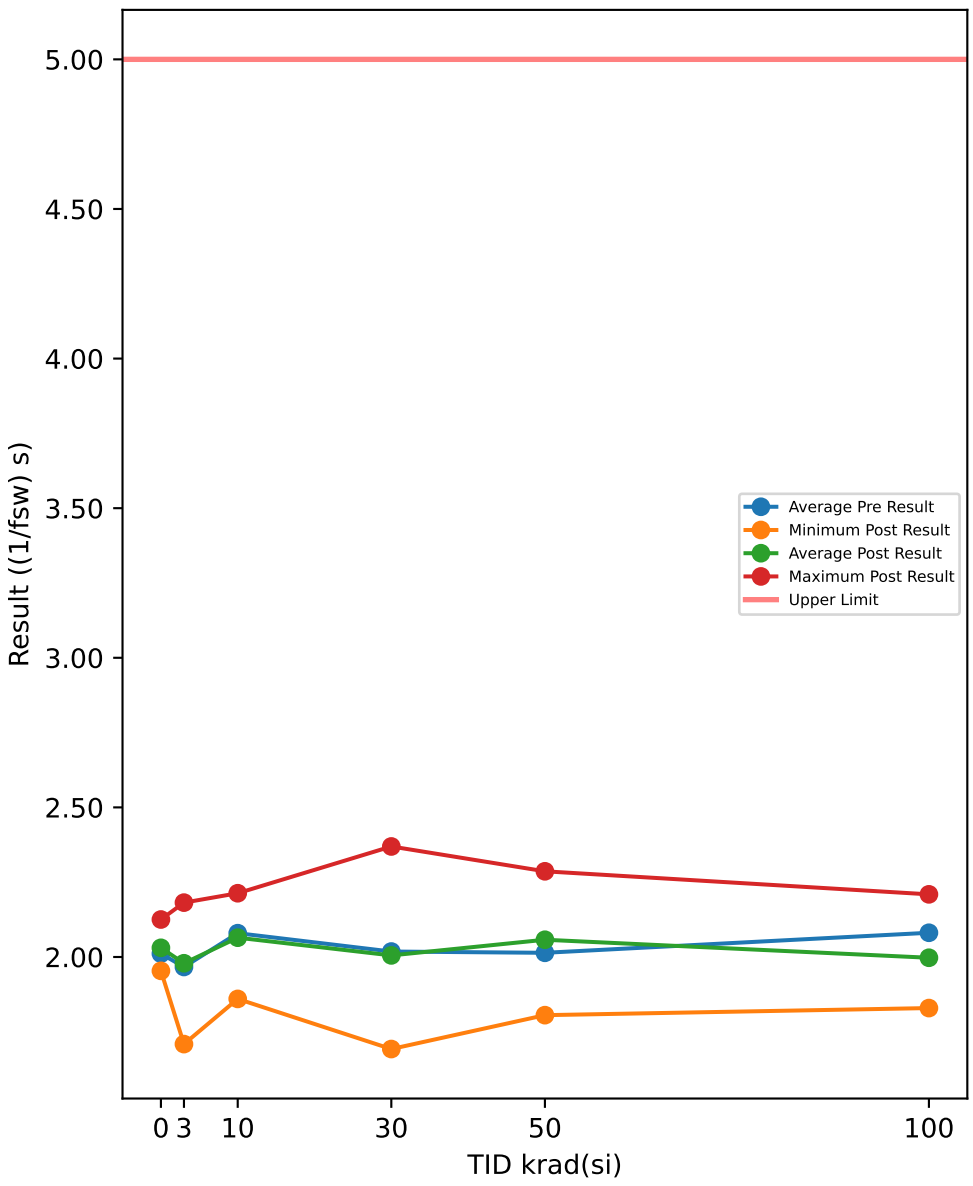
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	2.3711	1.9419	-0.4292
411	100	Unbiased	2.3414	2.046	-0.2954
444	30	Unbiased	2.034	1.9369	-0.0971
454	10	Unbiased	2.3552	2.3064	-0.0488
491	3	Unbiased	2.3359	2.1872	-0.1487
500	100	Unbiased	2.1568	2.0726	-0.0842
534	100	Biased	2.0482	2.378	0.3298
558	0	Correlation	2.2851	2.347	0.0619
563	100	Biased	2.2998	2.1104	-0.1894
570	3	Unbiased	2.0359	2.208	0.1721
614	10	Unbiased	1.9412	2.3121	0.3709
675	3	Biased	2.1548	2.0045	-0.1503
713	100	Unbiased	1.8858	1.8989	0.0131
744	50	Biased	2.2626	2.3846	0.122
799	50	Biased	2.1392	2.4466	0.3074
842	30	Unbiased	2.4713	1.8166	-0.6547
889	3	Unbiased	2.133	2.0596	-0.0734
901	3	Biased	2.3698	1.9587	-0.4111
930	50	Unbiased	2.1828	2.0471	-0.1357
968	100	Unbiased	2.2935	2.2671	-0.0264
976	100	Unbiased	1.998	1.9011	-0.0969
981	3	Biased	1.9938	2.1127	0.1189
1003	10	Biased	2.1413	2.2493	0.108
1039	3	Biased	2.2565	1.8845	-0.372
1053	100	Biased	2.0935	1.9027	-0.1908
1056	0	Correlation	2.3416	2.2359	-0.1057
1072	10	Biased	2.3711	2.2769	-0.0942
1095	50	Unbiased	2.0841	2.387	0.3029
1099	0	Correlation	2.1798	2.2493	0.0695
1113	3	Biased	1.9897	2.0877	0.098
1142	10	Unbiased	1.993	2.0613	0.0683
1154	10	Biased	2.2826	1.9721	-0.3105
1215	50	Unbiased	2.2561	2.0823	-0.1738
1222	100	Biased	2.1829	2.4236	0.2407
1229	50	Unbiased	2.0296	2.1683	0.1387
1255	3	Unbiased	2.264	1.9617	-0.3023
1331	30	Unbiased	2.2177	2.4017	0.184
1359	30	Biased	2.1933	1.8593	-0.334
1375	30	Unbiased	2.4186	2.0306	-0.388
1398	30	Biased	2.1265	2.1818	0.0553
1411	50	Biased	2.1979	1.8822	-0.3157
1465	10	Unbiased	2.3514	2.3131	-0.0383
1474	50	Biased	1.9047	1.9464	0.0417
1504	50	Biased	2.1722	1.9942	-0.178
1540	100	Biased	2.4209	2.2984	-0.1225
1554	3	Unbiased	1.9245	2.3966	0.4721
1662	30	Biased	2.0053	1.8597	-0.1456
1679	10	Biased	2.2552	2.3238	0.0686
1697	10	Biased	1.958	2.032	0.074
1703	30	Biased	1.9343	2.3126	0.3783
1704	10	Unbiased	2.34	2.0881	-0.2519
1736	30	Biased	1.9953	2.304	0.3087
1737	0	Correlation	1.9678	2.1206	0.1528
1748	0	Correlation	2.3838	1.9762	-0.4076

Test Statistics ((1/fsw) s)

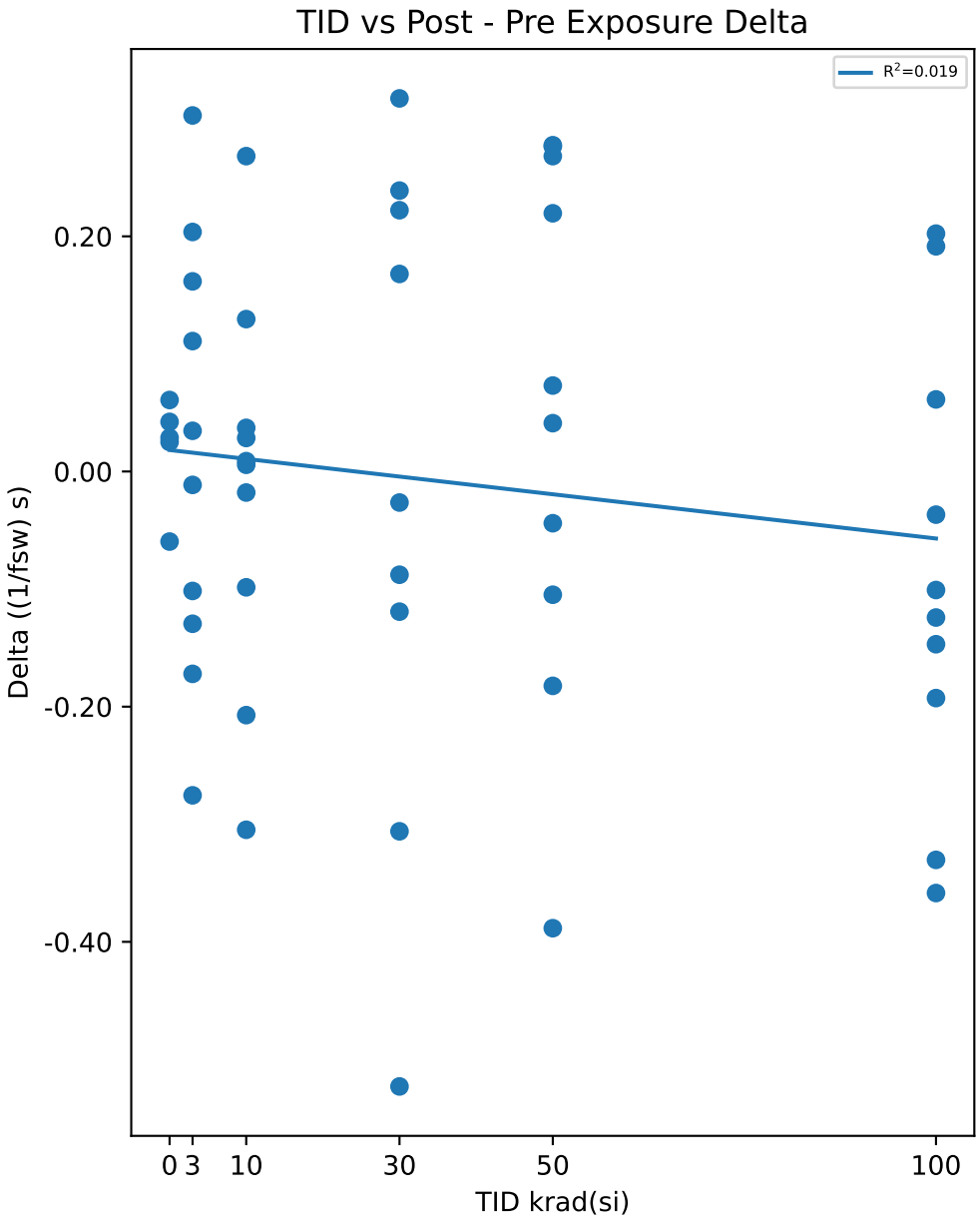
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.9678	2.2316	2.3838	0.16613	1.9762	2.1858	2.347	0.14205	-0.4076	-0.04582	0.1528	0.22295
3	1.9245	2.1458	2.3698	0.15681	1.8845	2.0861	2.3966	0.14978	-0.4111	-0.05967	0.4721	0.27679
10	1.9412	2.1989	2.3711	0.17562	1.9721	2.1935	2.3238	0.13818	-0.3105	-0.00539	0.3709	0.19333
30	1.9343	2.1551	2.4713	0.18941	1.8166	2.0781	2.4017	0.22573	-0.6547	-0.077011	0.3783	0.34338
50	1.9047	2.16	2.3711	0.13115	1.8822	2.1281	2.4466	0.20833	-0.4292	-0.03197	0.3074	0.253
100	1.8858	2.1721	2.4209	0.16858	1.8989	2.1299	2.4236	0.20085	-0.2954	-0.0422	0.3298	0.19459

Device Test: 20.122 FREQ|DETECTION/RT/8/8/0/0/5/200kHz//@T_INT_CLK_DET

TID vs Result Stats



TID vs Post - Pre Exposure Delta



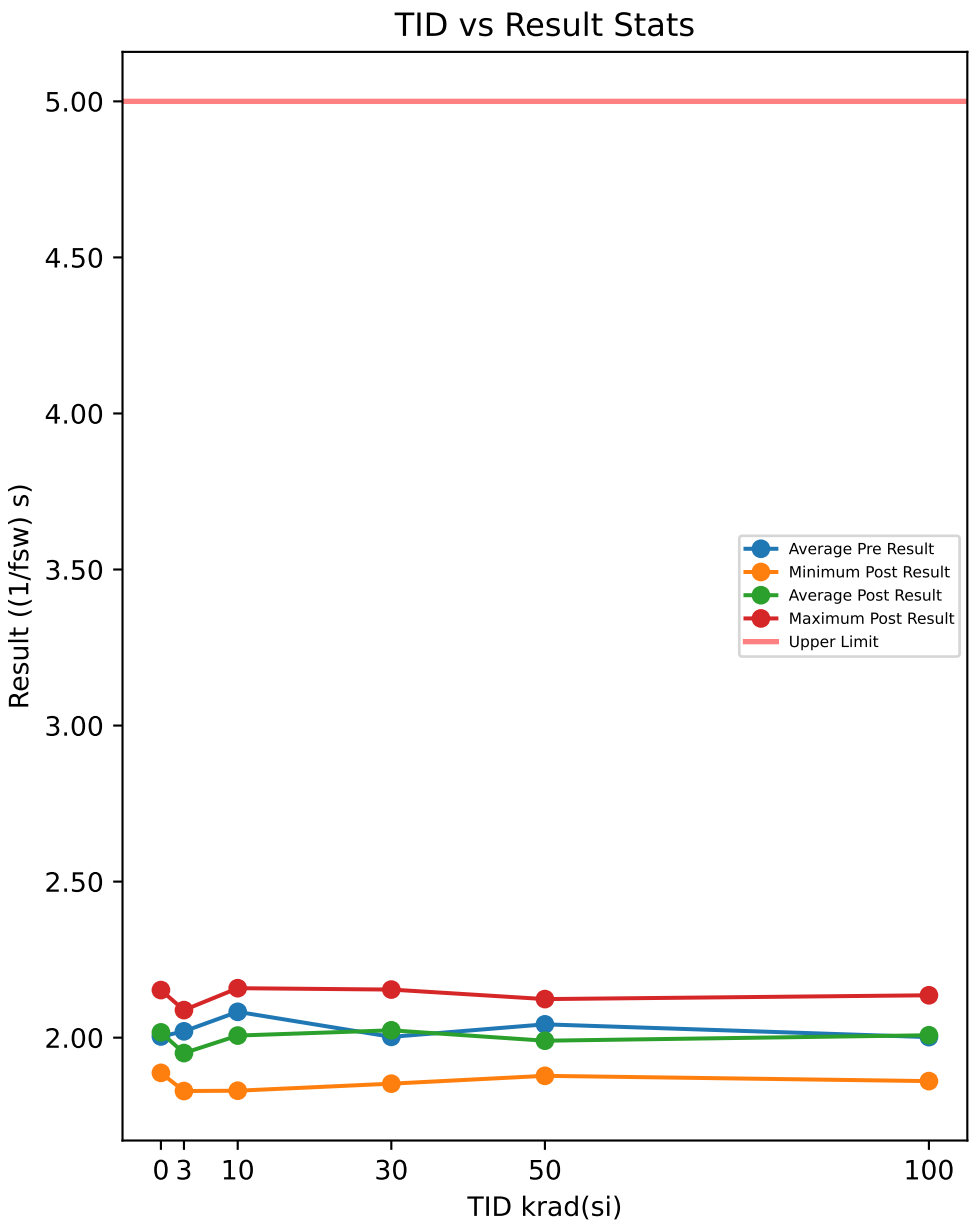
Test Results (Upper Limit = 5.0 ((1/fsw) s))

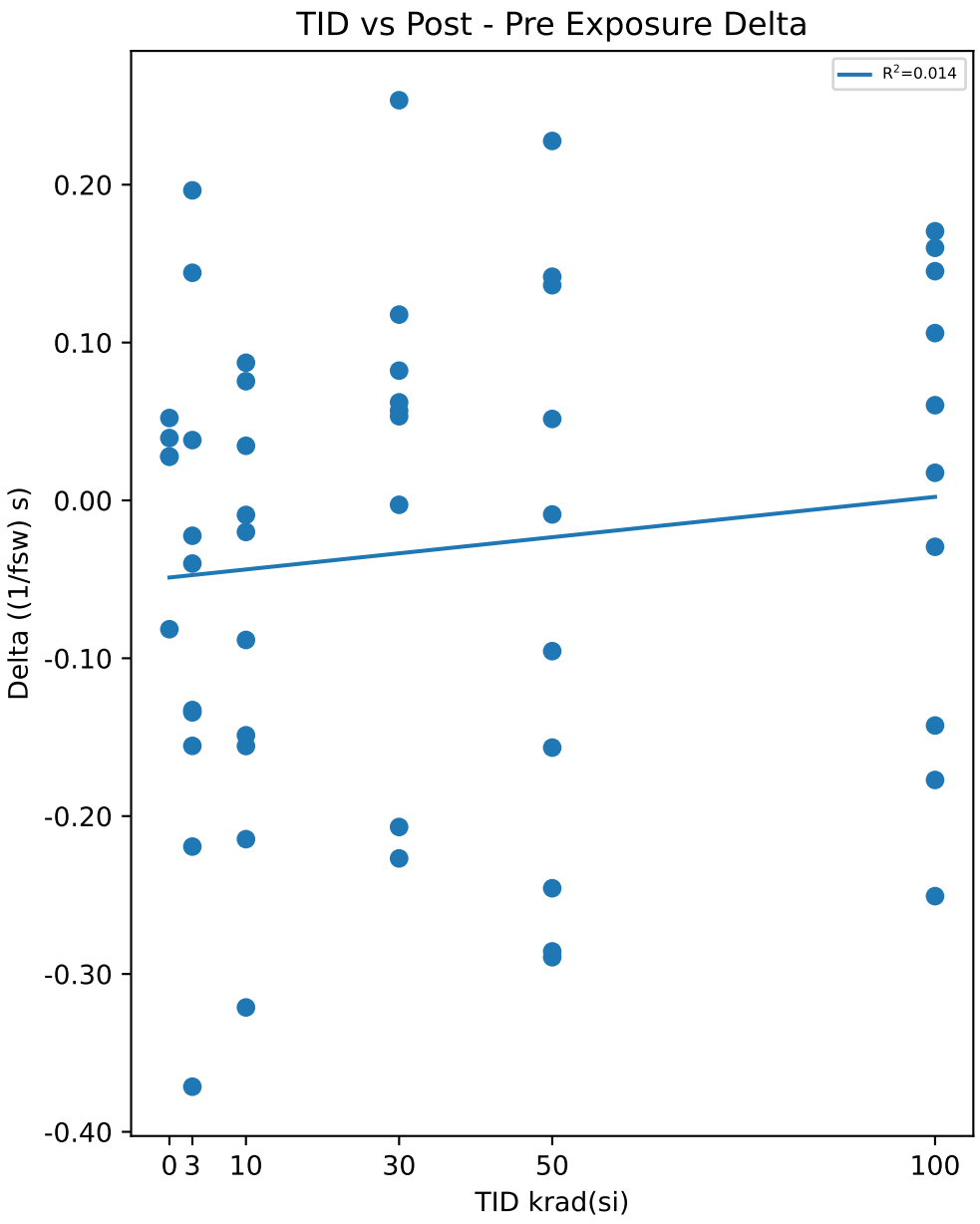
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	2.0649	1.9601	-0.1048
411	100	Unbiased	2.1596	1.8293	-0.3303
444	30	Unbiased	2.0822	1.9944	-0.0878
454	10	Unbiased	2.0302	2.1598	0.1296
491	3	Unbiased	2.0534	2.042	-0.0114
500	100	Unbiased	1.9956	2.1871	0.1915
534	100	Biased	2.2197	2.0728	-0.1469
558	0	Correlation	2.049	2.1098	0.0608
563	100	Biased	2.1481	2.2094	0.0613
570	3	Unbiased	1.8789	2.1817	0.3028
614	10	Unbiased	1.9449	2.2131	0.2682
675	3	Biased	1.9176	1.816	-0.1016
713	100	Unbiased	1.8835	1.8468	-0.0367
744	50	Biased	2.2133	2.2864	0.0731
799	50	Biased	1.9118	2.1893	0.2775
842	30	Unbiased	1.98	1.8608	-0.1192
889	3	Unbiased	1.8384	1.7089	-0.1295
901	3	Biased	2.0624	1.8903	-0.1721
930	50	Unbiased	1.9796	2.1992	0.2196
968	100	Unbiased	2.1988	2.0061	-0.1927
976	100	Unbiased	1.7683	1.9706	0.2023
981	3	Biased	1.826	2.0297	0.2037
1003	10	Biased	2.0869	2.1154	0.0285
1039	3	Biased	1.9282	2.0391	0.1109
1053	100	Biased	2.2194	1.8609	-0.3585
1056	0	Correlation	2.1002	2.1253	0.0251
1072	10	Biased	2.0475	1.949	-0.0985
1095	50	Unbiased	1.8306	2.0988	0.2682
1099	0	Correlation	2.0398	1.9802	-0.0596
1113	3	Biased	1.8608	2.0225	0.1617
1142	10	Unbiased	2.121	2.1581	0.0371
1154	10	Biased	2.1646	1.8599	-0.3047
1215	50	Unbiased	2.194	1.8056	-0.3884
1222	100	Biased	2.1212	1.997	-0.1242
1229	50	Unbiased	1.8465	2.1229	0.2764
1255	3	Unbiased	2.2628	1.9874	-0.2754
1331	30	Unbiased	2.0901	2.2581	0.168
1359	30	Biased	2.2154	1.6924	-0.523
1375	30	Unbiased	2.19	1.884	-0.306
1398	30	Biased	2.1472	2.3694	0.2222
1411	50	Biased	1.998	1.954	-0.044
1465	10	Unbiased	2.1822	2.1879	0.0057
1474	50	Biased	1.9016	1.9427	0.0411
1504	50	Biased	2.1999	2.0176	-0.1823
1540	100	Biased	2.0956	1.9948	-0.1008
1554	3	Unbiased	2.0382	2.0728	0.0346
1662	30	Biased	1.8904	1.864	-0.0264
1679	10	Biased	2.2253	2.2074	-0.0179
1697	10	Biased	1.8561	1.8649	0.0088
1703	30	Biased	1.8456	2.1629	0.3173
1704	10	Unbiased	2.1369	1.9297	-0.2072
1736	30	Biased	1.7234	1.9623	0.2389
1737	0	Correlation	1.9421	1.9843	0.0422
1748	0	Correlation	1.925	1.9537	0.0287

Test Statistics ((1/fsw) s)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.925	2.0112	2.1002	0.074788	1.9537	2.0307	2.1253	0.080371	-0.0596	0.01944	0.0608	0.046351
3	1.826	1.9667	2.2628	0.13684	1.7089	1.979	2.1817	0.13719	-0.2754	0.01237	0.3028	0.18378
10	1.8561	2.0796	2.2253	0.11333	1.8599	2.0645	2.2131	0.14582	-0.3047	-0.01504	0.2682	0.16144
30	1.7234	2.0183	2.2154	0.16912	1.6924	2.0054	2.3694	0.21701	-0.523	-0.012889	0.3173	0.2792
50	1.8306	2.014	2.2133	0.14738	1.8056	2.0577	2.2864	0.14691	-0.3884	0.04364	0.2775	0.22572
100	1.7683	2.081	2.2197	0.15234	1.8293	1.9975	2.2094	0.13207	-0.3585	-0.0835	0.2023	0.1929

Device Test: 20.124 FREQ|DETECTION/RT/8/8/0/0/5/500kHz//@T_INT_CLK_DET





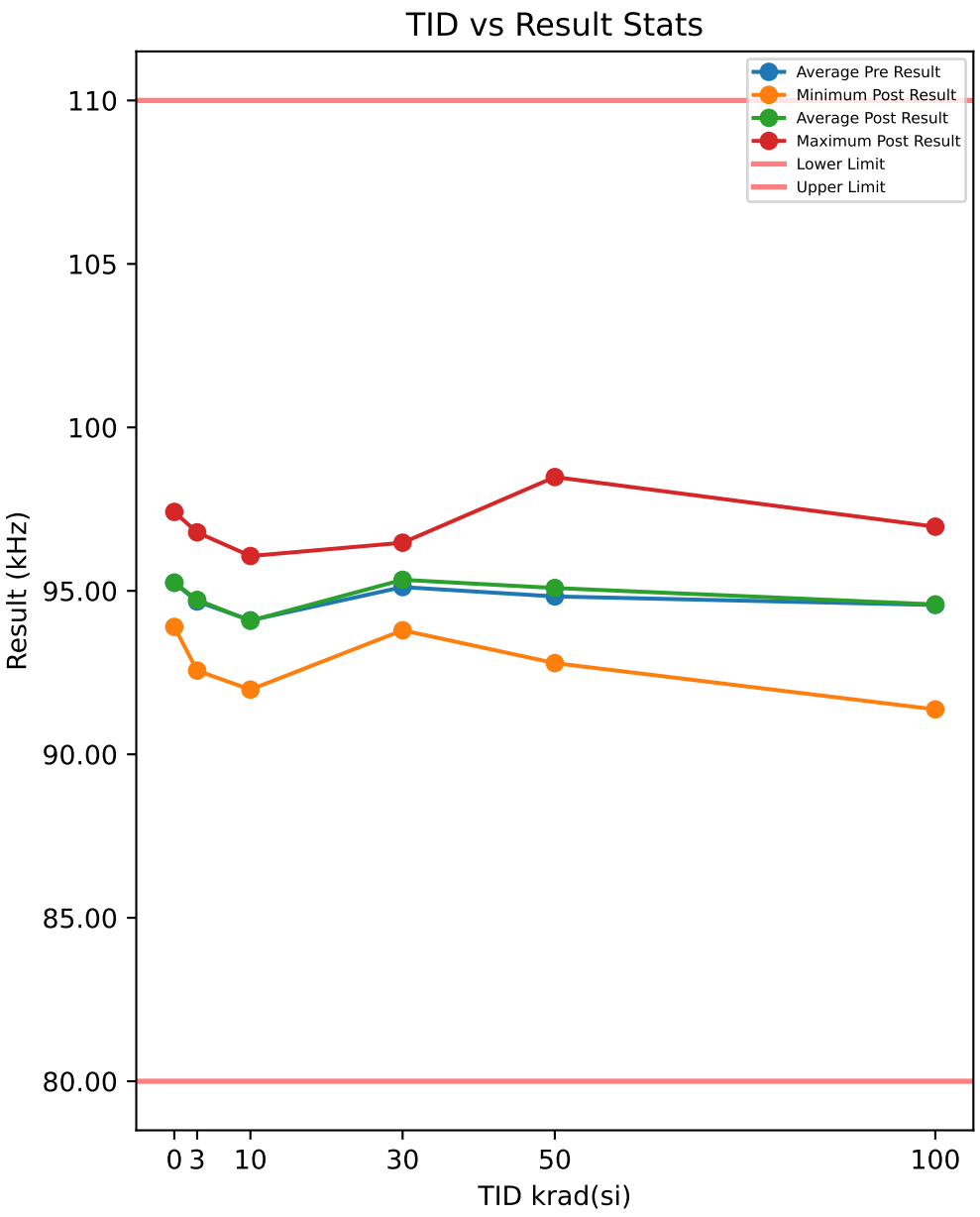
Test Results (Upper Limit = 5.0 ((1/fsw) s))

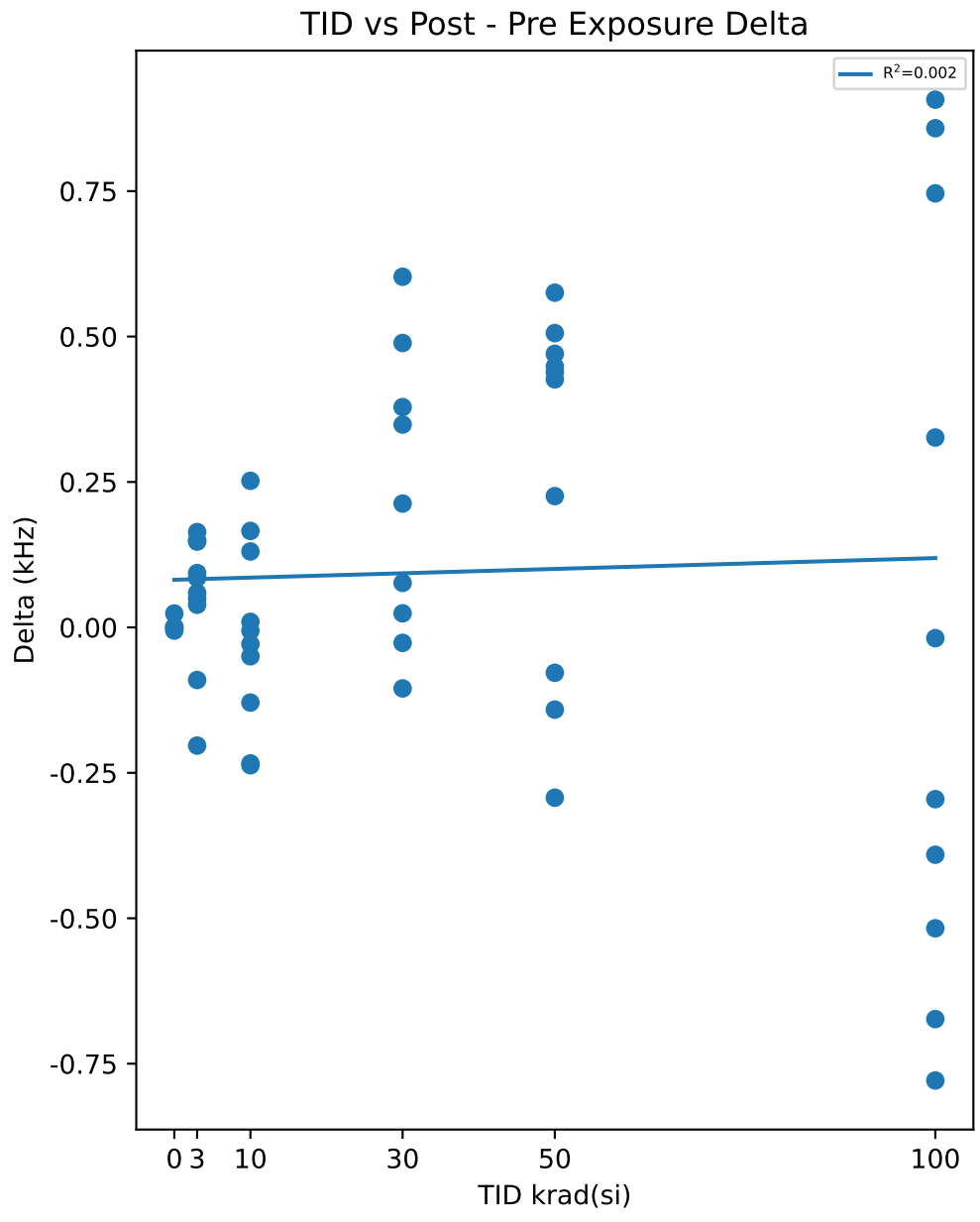
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	2.2024	1.9167	-0.2857
411	100	Unbiased	2.0575	1.9149	-0.1426
444	30	Unbiased	1.9957	2.0526	0.0569
454	10	Unbiased	2.3786	2.0574	-0.3212
491	3	Unbiased	2.0447	2.0829	0.0382
500	100	Unbiased	2.0374	2.008	-0.0294
534	100	Biased	1.9906	2.1358	0.1452
558	0	Correlation	2.0919	2.1196	0.0277
563	100	Biased	1.9021	2.0726	0.1705
570	3	Unbiased	1.8919	2.0883	0.1964
614	10	Unbiased	1.8878	1.9633	0.0755
675	3	Biased	2.0942	1.8749	-0.2193
713	100	Unbiased	1.8526	1.9129	0.0603
744	50	Biased	2.1671	1.8777	-0.2894
799	50	Biased	1.9819	2.1236	0.1417
842	30	Unbiased	2.1554	1.9286	-0.2268
889	3	Unbiased	1.8722	2.0164	0.1442
901	3	Biased	2.093	1.9375	-0.1555
930	50	Unbiased	2.0864	2.0775	-0.0089
968	100	Unbiased	2.1115	1.8608	-0.2507
976	100	Unbiased	1.9037	2.0097	0.106
981	3	Biased	1.869	1.829	-0.04
1003	10	Biased	2.0315	2.0661	0.0346
1039	3	Biased	2.0415	1.9072	-0.1343
1053	100	Biased	2.1167	1.9396	-0.1771
1056	0	Correlation	2.113	2.1525	0.0395
1072	10	Biased	2.1677	2.1585	-0.0092
1095	50	Unbiased	1.9254	1.977	0.0516
1099	0	Correlation	1.9557	2.0079	0.0522
1113	3	Biased	1.98	1.8472	-0.1328
1142	10	Unbiased	1.922	2.0092	0.0872
1154	10	Biased	2.0874	1.8728	-0.2146
1215	50	Unbiased	2.1488	1.9922	-0.1566
1222	100	Biased	1.9424	2.1024	0.16
1229	50	Unbiased	1.8863	2.114	0.2277
1255	3	Unbiased	2.2822	1.9108	-0.3714
1331	30	Unbiased	2.0946	2.1479	0.0533
1359	30	Biased	2.0595	1.8526	-0.2069
1375	30	Unbiased	1.9855	2.0677	0.0822
1398	30	Biased	2.1186	2.1158	-0.0028
1411	50	Biased	2.1677	1.922	-0.2457
1465	10	Unbiased	2.1235	2.1035	-0.02
1474	50	Biased	1.8191	1.9554	0.1363
1504	50	Biased	2.0417	1.9462	-0.0955
1540	100	Biased	2.1031	2.1206	0.0175
1554	3	Unbiased	2.0344	2.012	-0.0224
1662	30	Biased	1.8913	2.009	0.1177
1679	10	Biased	2.1421	2.0537	-0.0884
1697	10	Biased	1.9856	1.83	-0.1556
1703	30	Biased	1.9006	2.1541	0.2535
1704	10	Unbiased	2.1014	1.9526	-0.1488
1736	30	Biased	1.8218	1.8839	0.0621
1737	0	Correlation	1.8594	1.8872	0.0278
1748	0	Correlation	1.999	1.9174	-0.0816

Test Statistics ((1/fsw) s)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.8594	2.0038	2.113	0.10353	1.8872	2.0169	2.1525	0.11804	-0.0816	0.01312	0.0522	0.053905
3	1.869	2.0203	2.2822	0.12628	1.829	1.9506	2.0883	0.093934	-0.3714	-0.06969	0.1964	0.17005
10	1.8878	2.0828	2.3786	0.13992	1.83	2.0067	2.1585	0.10257	-0.3212	-0.07605	0.0872	0.13356
30	1.8218	2.0026	2.1554	0.1142	1.8526	2.0236	2.1541	0.11278	-0.2268	0.021022	0.2535	0.1521
50	1.8191	2.0427	2.2024	0.13403	1.8777	1.9902	2.1236	0.086138	-0.2894	-0.05245	0.2277	0.19007
100	1.8526	2.0018	2.1167	0.09738	1.8608	2.0077	2.1358	0.097841	-0.2507	0.00597	0.1705	0.15129

Device Test: 20.27 LEVEL|FREQ/RT/12/12/0/0/5/100kHz//@FSW_EXT_RT_A





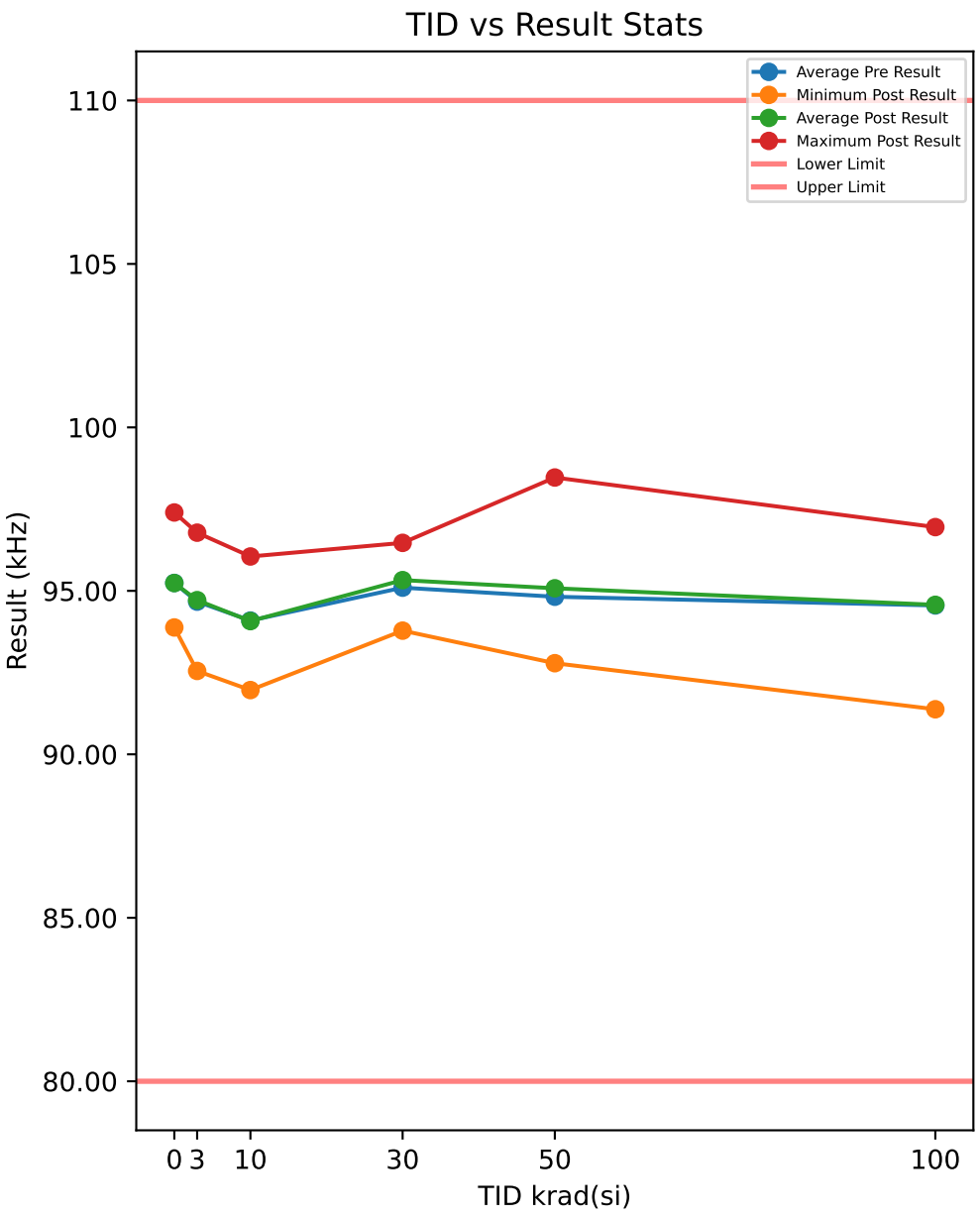
Test Results (Lower Limit = 80.0, Upper Limit = 110.0 (kHz))

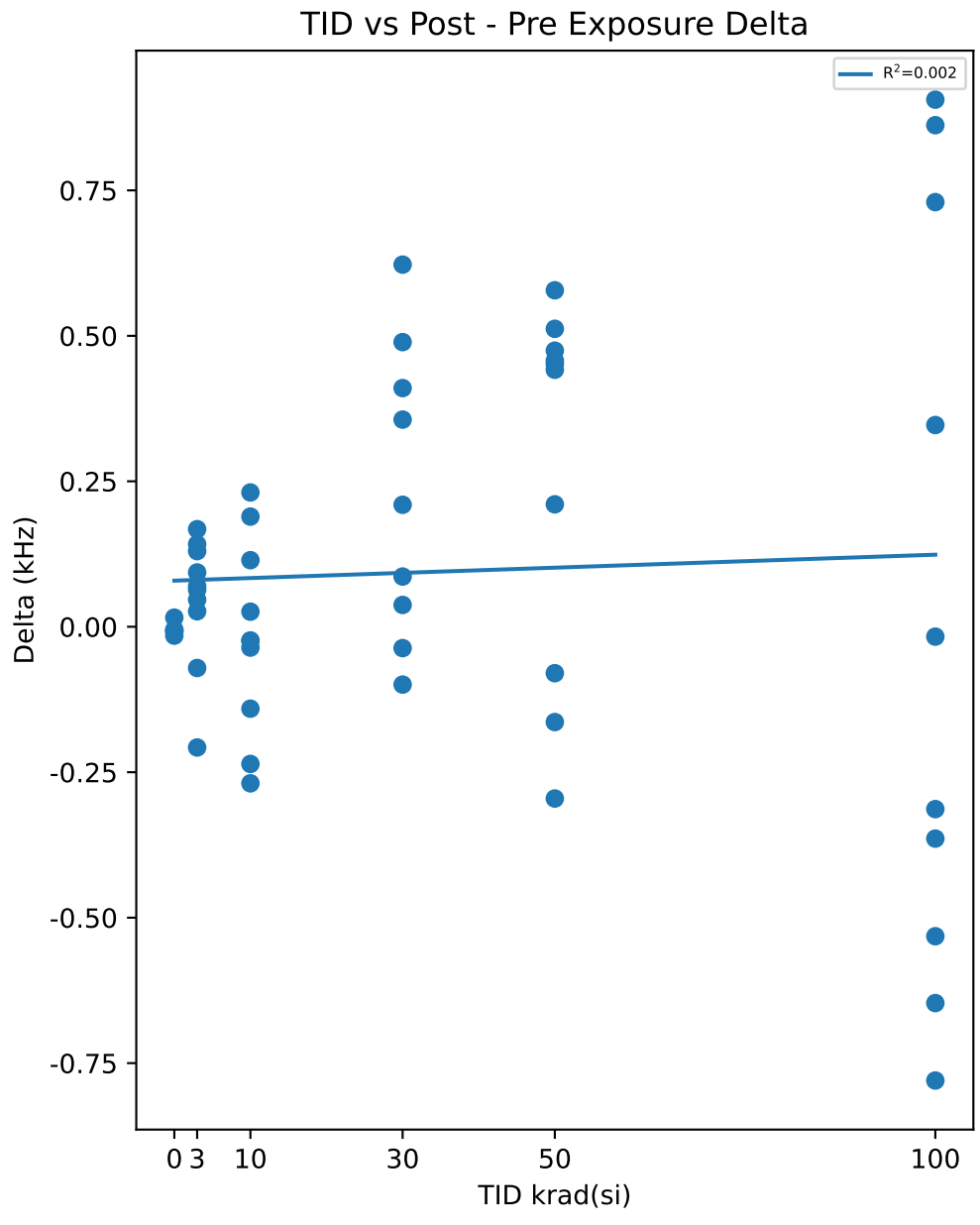
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	94.538	94.977	0.4387
411	100	Unbiased	92.154	91.375	-0.7789
444	30	Unbiased	96.094	96.472	0.3787
454	10	Unbiased	93.842	93.713	-0.1292
491	3	Unbiased	95.573	95.721	0.1475
500	100	Unbiased	96.636	96.962	0.3264
534	100	Biased	94.597	93.924	-0.6733
558	0	Correlation	95.325	95.322	-0.0027
563	100	Biased	94.927	94.536	-0.3908
570	3	Unbiased	93.787	93.846	0.0594
614	10	Unbiased	95.949	95.959	0.0095
675	3	Biased	96.695	96.789	0.0934
713	100	Unbiased	96.113	96.094	-0.0185
744	50	Biased	93.105	93.531	0.4264
799	50	Biased	93.083	92.79	-0.2927
842	30	Unbiased	93.445	93.794	0.3487
889	3	Unbiased	95.765	95.675	-0.0904
901	3	Biased	94.815	94.979	0.1639
930	50	Unbiased	97.975	98.481	0.5059
968	100	Unbiased	93.089	93.835	0.7461
976	100	Unbiased	93.164	94.022	0.8581
981	3	Biased	94.576	94.615	0.0389
1003	10	Biased	95.011	94.961	-0.0497
1039	3	Biased	96.065	96.115	0.0497
1053	100	Biased	94.158	95.065	0.9072
1056	0	Correlation	94.825	94.826	0.001
1072	10	Biased	94.642	94.614	-0.0286
1095	50	Unbiased	96.355	96.931	0.5754
1099	0	Correlation	97.389	97.413	0.0239
1113	3	Biased	92.765	92.561	-0.2032
1142	10	Unbiased	95.935	96.066	0.1305
1154	10	Biased	93.182	93.176	-0.0057
1215	50	Unbiased	95.269	95.191	-0.0781
1222	100	Biased	94.784	94.267	-0.5172
1229	50	Unbiased	94.252	94.478	0.2257
1255	3	Unbiased	93.18	93.265	0.0852
1331	30	Unbiased	94.603	94.498	-0.1049
1359	30	Biased	95.815	96.417	0.6028
1375	30	Unbiased	95.11	95.083	-0.0266
1398	30	Biased	95.609	95.822	0.2129
1411	50	Biased	94.427	94.875	0.4486
1465	10	Unbiased	93.129	93.295	0.1658
1474	50	Biased	94.838	94.697	-0.1413
1504	50	Biased	94.451	94.922	0.4703
1540	100	Biased	96.064	95.768	-0.2953
1554	3	Unbiased	93.522	93.672	0.1498
1662	30	Biased	94.975	95.464	0.4889
1679	10	Biased	93.91	94.162	0.252
1697	10	Biased	93.165	92.928	-0.237
1703	30	Biased	94.754	94.778	0.0242
1704	10	Unbiased	92.213	91.979	-0.2338
1736	30	Biased	95.634	95.711	0.0765
1737	0	Correlation	93.897	93.897	0.0004
1748	0	Correlation	94.799	94.793	-0.0055

Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	93.897	95.247	97.389	1.3036	93.897	95.251	97.413	1.3137	-0.0055	0.00342	0.0239	0.011741
3	92.765	94.674	96.695	1.3351	92.561	94.724	96.789	1.3685	-0.2032	0.04942	0.1639	0.11527
10	92.213	94.098	95.949	1.2577	91.979	94.085	96.066	1.3271	-0.237	-0.01262	0.252	0.1624
30	93.445	95.115	96.094	0.80313	93.794	95.338	96.472	0.88797	-0.1049	0.22236	0.6028	0.24645
50	93.083	94.829	97.975	1.4593	92.79	95.087	98.481	1.6067	-0.2927	0.25789	0.5754	0.31293
100	92.154	94.568	96.636	1.4618	91.375	94.585	96.962	1.5378	-0.7789	0.01638	0.9072	0.64873

Device Test: 20.31 LEVEL|FREQ/RT/14/14/0/0/5/100kHz//@FSW_EXT_RT_A





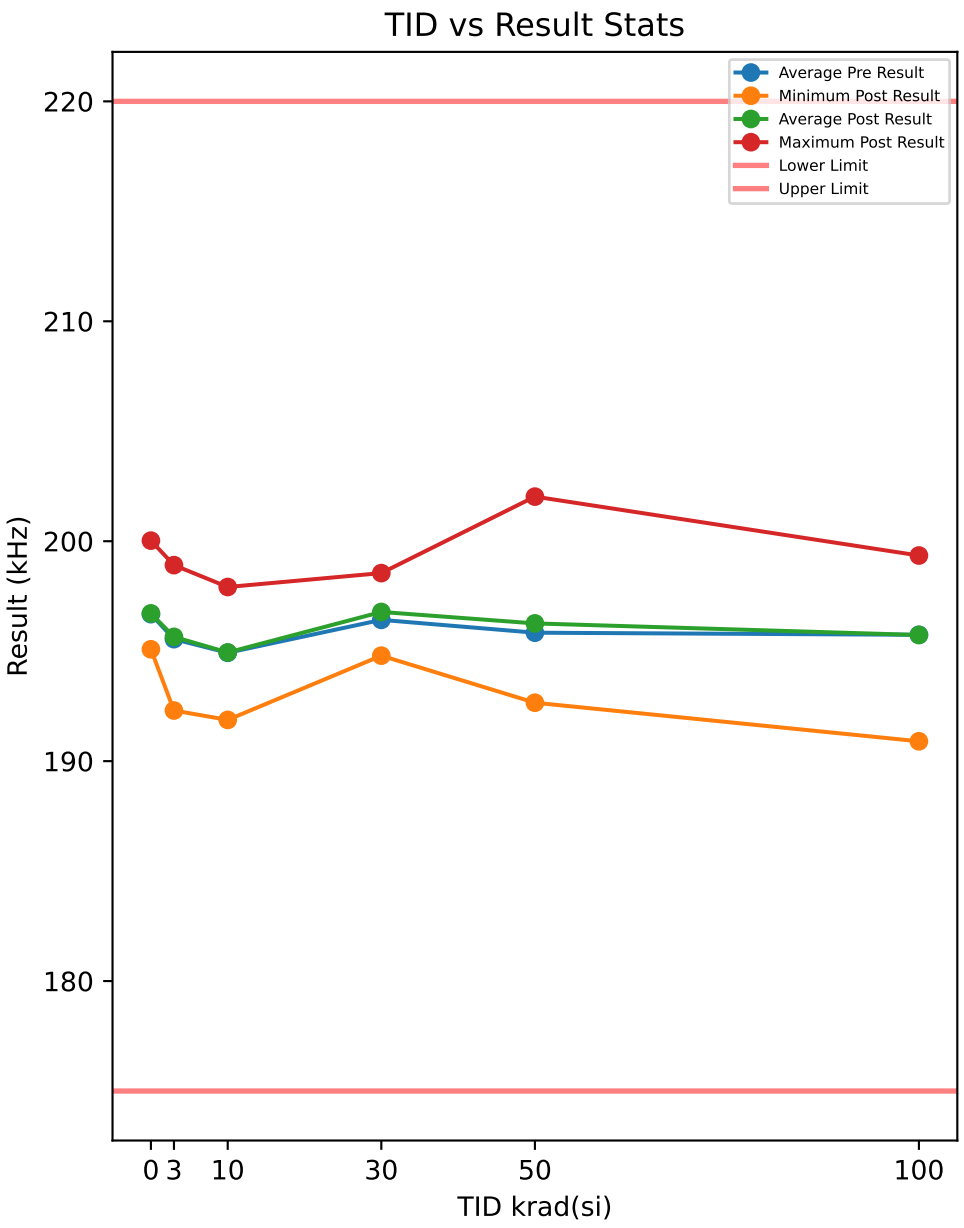
Test Results (Lower Limit = 80.0, Upper Limit = 110.0 (kHz))

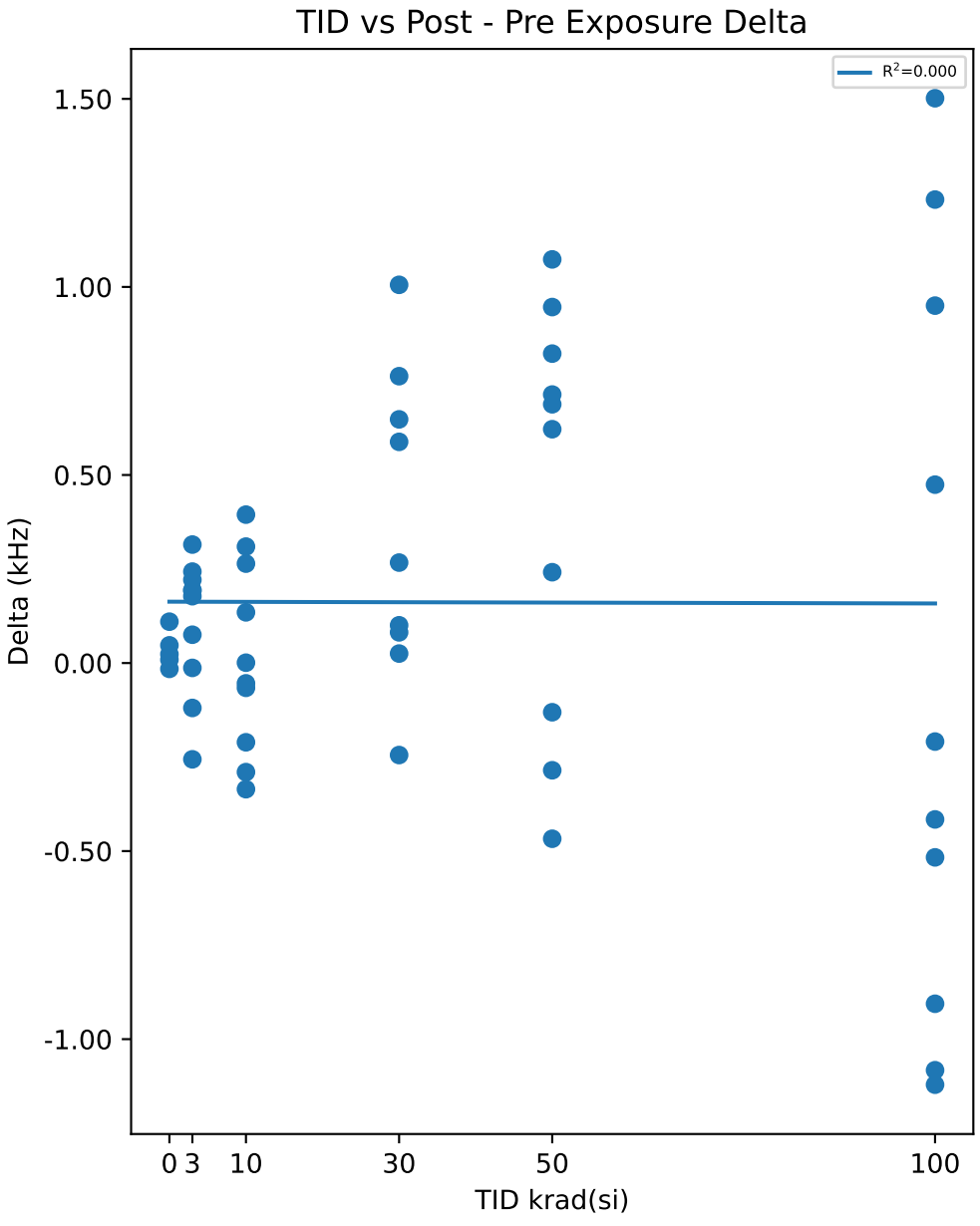
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	94.523	94.981	0.4574
411	100	Unbiased	92.158	91.378	-0.7799
444	30	Unbiased	96.058	96.468	0.4102
454	10	Unbiased	93.84	93.699	-0.1408
491	3	Unbiased	95.567	95.698	0.13
500	100	Unbiased	96.603	96.95	0.3467
534	100	Biased	94.562	93.915	-0.6468
558	0	Correlation	95.324	95.309	-0.0153
563	100	Biased	94.898	94.534	-0.3641
570	3	Unbiased	93.77	93.84	0.0699
614	10	Unbiased	95.932	95.958	0.0259
675	3	Biased	96.686	96.78	0.0933
713	100	Unbiased	96.112	96.095	-0.017
744	50	Biased	93.079	93.521	0.4417
799	50	Biased	93.082	92.787	-0.2952
842	30	Unbiased	93.427	93.783	0.356
889	3	Unbiased	95.748	95.677	-0.0709
901	3	Biased	94.813	94.981	0.1677
930	50	Unbiased	97.955	98.467	0.5121
968	100	Unbiased	93.077	93.807	0.7298
976	100	Unbiased	93.152	94.014	0.862
981	3	Biased	94.588	94.615	0.0266
1003	10	Biased	94.984	94.949	-0.0358
1039	3	Biased	96.062	96.109	0.0466
1053	100	Biased	94.149	95.055	0.9059
1056	0	Correlation	94.83	94.824	-0.0065
1072	10	Biased	94.628	94.604	-0.024
1095	50	Unbiased	96.344	96.922	0.5783
1099	0	Correlation	97.382	97.397	0.0157
1113	3	Biased	92.758	92.55	-0.2075
1142	10	Unbiased	95.937	96.052	0.1144
1154	10	Biased	93.183	93.16	-0.0236
1215	50	Unbiased	95.25	95.17	-0.0798
1222	100	Biased	94.783	94.251	-0.5319
1229	50	Unbiased	94.251	94.462	0.2104
1255	3	Unbiased	93.186	93.249	0.0636
1331	30	Unbiased	94.582	94.482	-0.0994
1359	30	Biased	95.795	96.417	0.6224
1375	30	Unbiased	95.107	95.07	-0.0367
1398	30	Biased	95.599	95.809	0.2096
1411	50	Biased	94.422	94.874	0.4514
1465	10	Unbiased	93.103	93.293	0.1893
1474	50	Biased	94.848	94.684	-0.1638
1504	50	Biased	94.446	94.921	0.4745
1540	100	Biased	96.041	95.728	-0.3134
1554	3	Unbiased	93.522	93.664	0.1419
1662	30	Biased	94.972	95.461	0.4892
1679	10	Biased	93.919	94.15	0.2308
1697	10	Biased	93.154	92.918	-0.2358
1703	30	Biased	94.732	94.769	0.0375
1704	10	Unbiased	92.234	91.965	-0.2691
1736	30	Biased	95.609	95.695	0.0863
1737	0	Correlation	93.889	93.88	-0.0085
1748	0	Correlation	94.785	94.78	-0.005

Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	93.889	95.242	97.382	1.3032	93.88	95.238	97.397	1.3126	-0.0153	-0.00392	0.0157	0.011654
3	92.758	94.67	96.686	1.3327	92.55	94.716	96.78	1.3696	-0.2075	0.04612	0.1677	0.1118
10	92.234	94.092	95.937	1.2517	91.965	94.075	96.052	1.3284	-0.2691	-0.01687	0.2308	0.16676
30	93.427	95.098	96.058	0.80055	93.783	95.328	96.468	0.89091	-0.0994	0.23057	0.6224	0.25181
50	93.079	94.82	97.955	1.4566	92.787	95.079	98.467	1.6048	-0.2952	0.2587	0.5783	0.32063
100	92.158	94.554	96.603	1.4552	91.378	94.573	96.95	1.5339	-0.7799	0.01913	0.9059	0.64579

Device Test: 20.35 LEVEL|FREQ/RT/12/12/0/0/5/200kHz//@FSW_EXT_RT_B





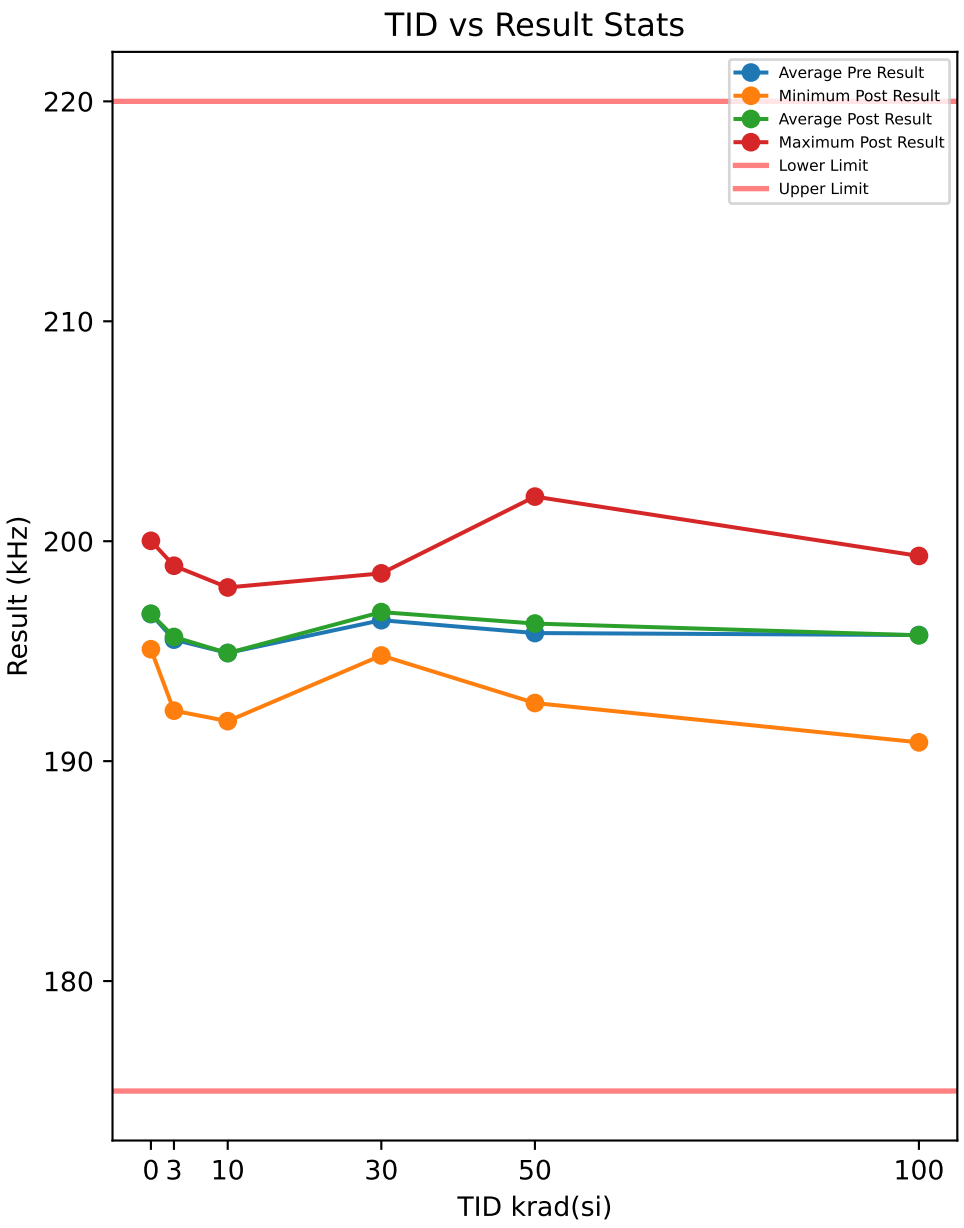
Test Results (Lower Limit = 175.0, Upper Limit = 220.0 (kHz))

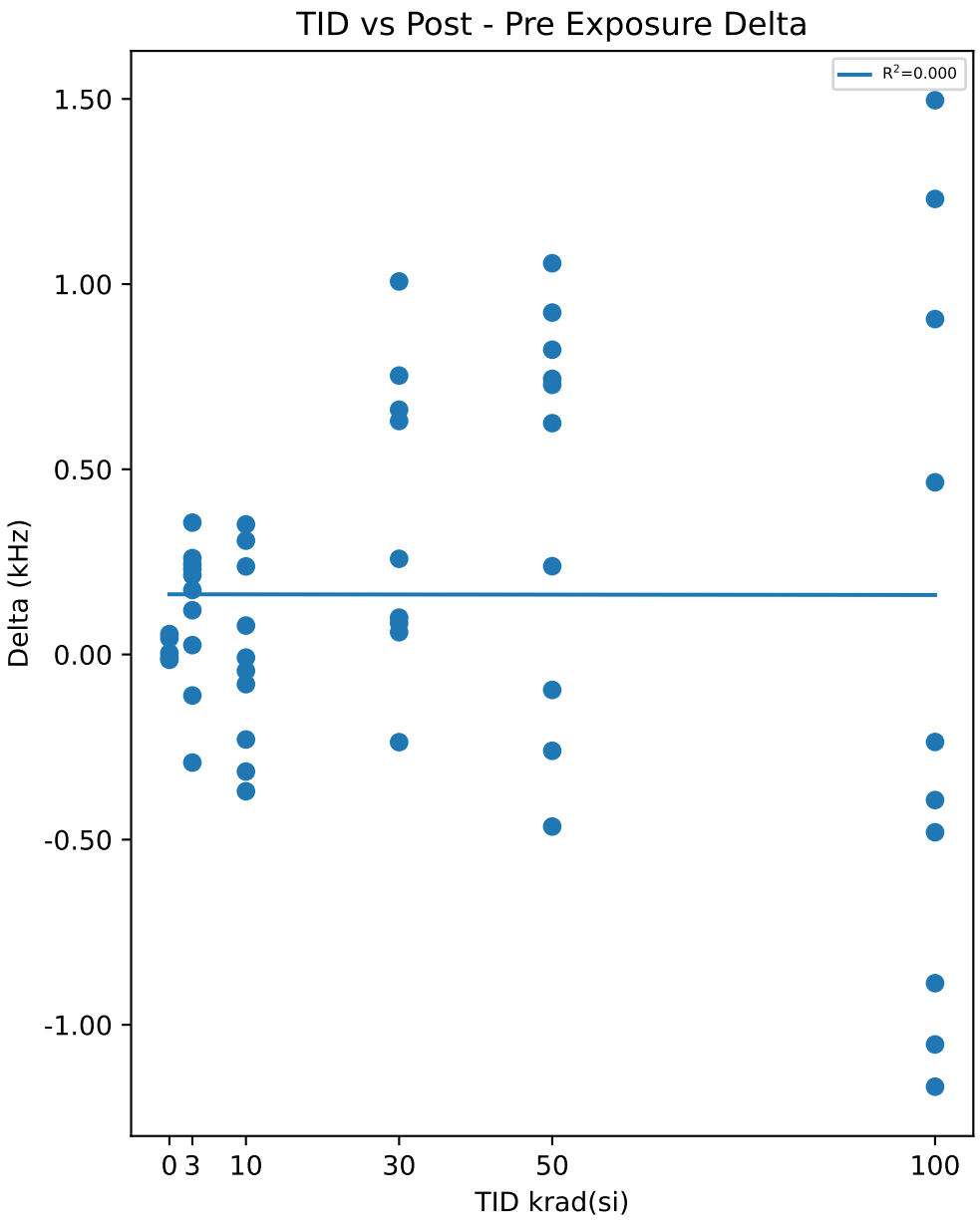
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	194.96	195.78	0.8227
411	100	Unbiased	192.02	190.9	-1.1211
444	30	Unbiased	197.9	198.55	0.6479
454	10	Unbiased	194.21	194	-0.2107
491	3	Unbiased	196.9	197.1	0.1941
500	100	Unbiased	198.88	199.35	0.4743
534	100	Biased	195.64	194.74	-0.9059
558	0	Correlation	196.58	196.61	0.0235
563	100	Biased	195.74	195.22	-0.5167
570	3	Unbiased	194.54	194.53	-0.0129
614	10	Unbiased	197.97	197.92	-0.054
675	3	Biased	198.67	198.91	0.2431
713	100	Unbiased	198.48	198.27	-0.2088
744	50	Biased	193.04	193.66	0.6217
799	50	Biased	193.12	192.66	-0.4672
842	30	Unbiased	194.21	194.8	0.5881
889	3	Unbiased	197.26	197.14	-0.1194
901	3	Biased	195.55	195.87	0.315
930	50	Unbiased	201.31	202.03	0.7139
968	100	Unbiased	193.34	194.29	0.9503
976	100	Unbiased	194	195.23	1.2323
981	3	Biased	195.53	195.61	0.0753
1003	10	Biased	196.2	196.2	0.0009
1039	3	Biased	197.95	198.12	0.1777
1053	100	Biased	195.1	196.6	1.5017
1056	0	Correlation	195.92	195.93	0.009
1072	10	Biased	196.42	196.35	-0.0659
1095	50	Unbiased	198.46	199.14	0.688
1099	0	Correlation	199.98	200.03	0.0471
1113	3	Biased	192.56	192.3	-0.256
1142	10	Unbiased	197.54	197.8	0.2643
1154	10	Biased	193.05	193.18	0.1348
1215	50	Unbiased	196.16	196.03	-0.1308
1222	100	Biased	196.16	195.08	-1.0826
1229	50	Unbiased	195.03	195.27	0.2415
1255	3	Unbiased	192.84	193.06	0.2213
1331	30	Unbiased	195.44	195.2	-0.2446
1359	30	Biased	197.29	198.3	1.0056
1375	30	Unbiased	195.85	195.87	0.0252
1398	30	Biased	196.98	197.25	0.2671
1411	50	Biased	195.19	196.14	0.9465
1465	10	Unbiased	193.47	193.78	0.3096
1474	50	Biased	195.87	195.58	-0.2851
1504	50	Biased	195.27	196.34	1.0732
1540	100	Biased	198.09	197.67	-0.4158
1554	3	Unbiased	193.66	193.85	0.1926
1662	30	Biased	196.77	197.53	0.7627
1679	10	Biased	194.86	195.25	0.3946
1697	10	Biased	193.39	193.05	-0.3354
1703	30	Biased	195.7	195.8	0.1004
1704	10	Unbiased	192.17	191.88	-0.29
1736	30	Biased	197.67	197.76	0.0816
1737	0	Correlation	195.1	195.09	-0.0155
1748	0	Correlation	195.83	195.94	0.11

Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	195.1	196.68	199.98	1.9159	195.09	196.72	200.03	1.9265	-0.0155	0.03482	0.11	0.047775
3	192.56	195.55	198.67	2.1367	192.3	195.65	198.91	2.1986	-0.256	0.10308	0.315	0.18044
10	192.17	194.93	197.97	2.0028	191.88	194.94	197.92	2.0821	-0.3354	0.01482	0.3946	0.25509
30	194.21	196.42	197.9	1.2075	194.8	196.78	198.55	1.3872	-0.2446	0.35933	1.0056	0.41004
50	193.04	195.84	201.31	2.4571	192.66	196.26	202.03	2.6475	-0.4672	0.42244	1.0732	0.54614
100	192.02	195.74	198.88	2.2615	190.9	195.74	199.35	2.389	-1.1211	-0.00923	1.5017	0.97945

Device Test: 20.37 LEVEL|FREQ/RT/14/14/0/0/5/200kHz//@FSW_EXT_RT_B





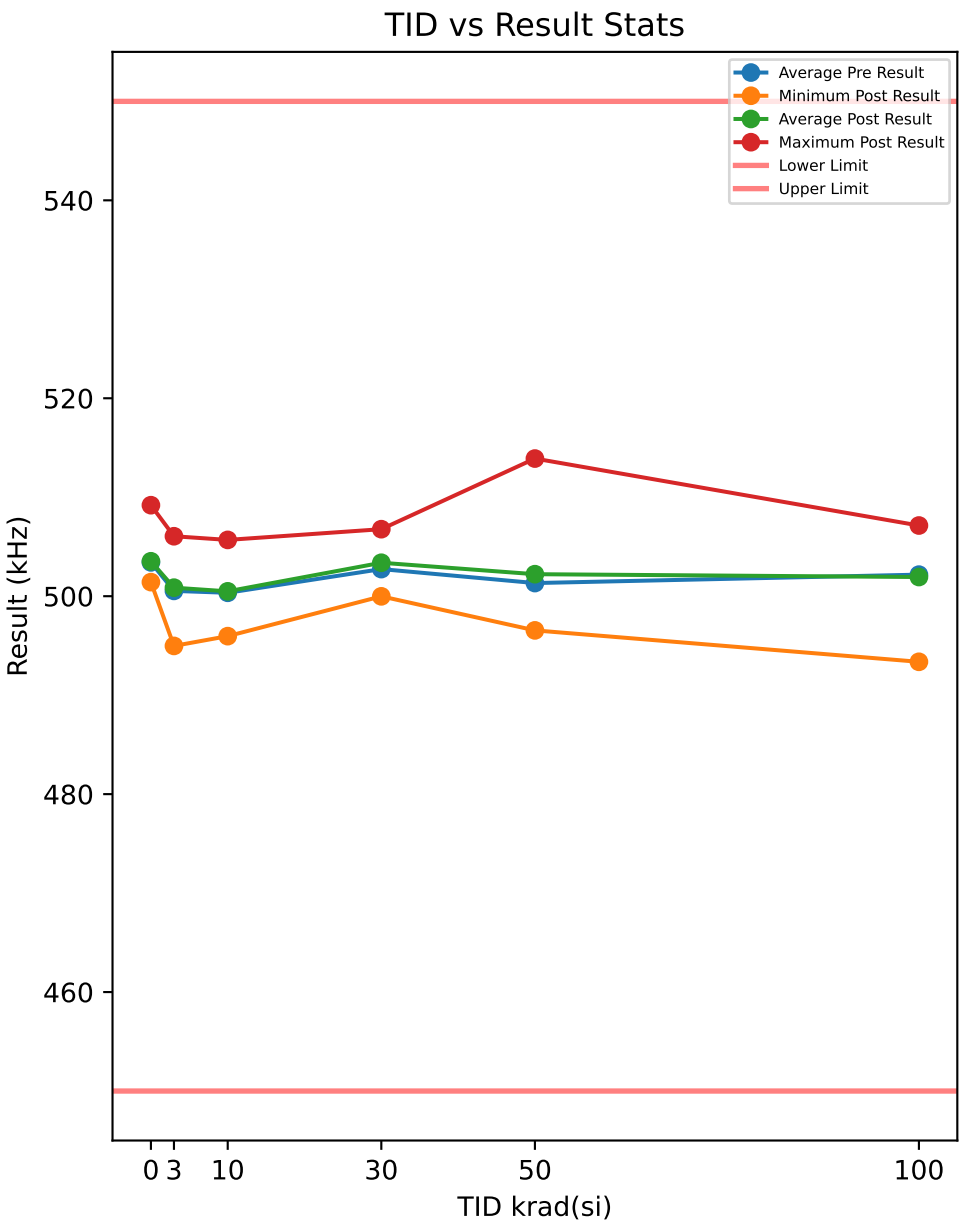
Test Results (Lower Limit = 175.0, Upper Limit = 220.0 (kHz))

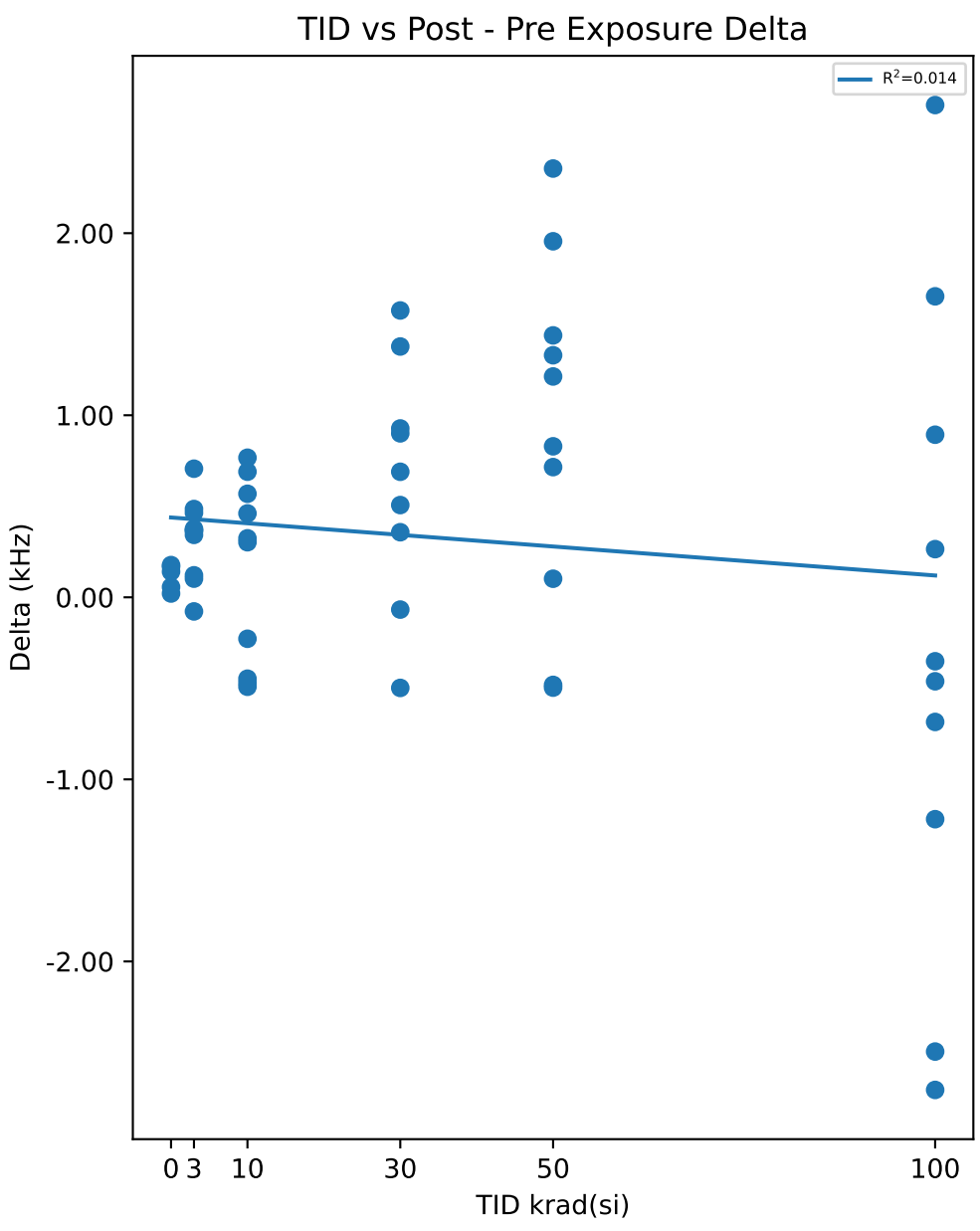
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	194.96	195.79	0.8228
411	100	Unbiased	192.02	190.85	-1.1671
444	30	Unbiased	197.88	198.54	0.6609
454	10	Unbiased	194.23	194	-0.2296
491	3	Unbiased	196.85	197.11	0.2601
500	100	Unbiased	198.87	199.33	0.4648
534	100	Biased	195.62	194.73	-0.8876
558	0	Correlation	196.6	196.6	-0.0084
563	100	Biased	195.72	195.24	-0.4802
570	3	Unbiased	194.53	194.55	0.0252
614	10	Unbiased	197.94	197.9	-0.0442
675	3	Biased	198.64	198.89	0.2437
713	100	Unbiased	198.48	198.24	-0.2363
744	50	Biased	193.02	193.64	0.6245
799	50	Biased	193.11	192.64	-0.4646
842	30	Unbiased	194.17	194.8	0.6304
889	3	Unbiased	197.23	197.12	-0.1108
901	3	Biased	195.51	195.86	0.356
930	50	Unbiased	201.3	202.03	0.7281
968	100	Unbiased	193.37	194.27	0.9056
976	100	Unbiased	193.97	195.2	1.23
981	3	Biased	195.48	195.6	0.1194
1003	10	Biased	196.17	196.16	-0.0085
1039	3	Biased	197.91	198.14	0.2302
1053	100	Biased	195.08	196.57	1.4965
1056	0	Correlation	195.91	195.92	0.004
1072	10	Biased	196.41	196.33	-0.0802
1095	50	Unbiased	198.4	199.14	0.7441
1099	0	Correlation	199.96	200.02	0.055
1113	3	Biased	192.59	192.3	-0.2919
1142	10	Unbiased	197.52	197.76	0.2377
1154	10	Biased	193.05	193.13	0.078
1215	50	Unbiased	196.13	196.03	-0.0958
1222	100	Biased	196.14	195.09	-1.0531
1229	50	Unbiased	195.02	195.26	0.2383
1255	3	Unbiased	192.84	193.06	0.2136
1331	30	Unbiased	195.44	195.2	-0.2368
1359	30	Biased	197.27	198.27	1.0072
1375	30	Unbiased	195.81	195.87	0.0601
1398	30	Biased	196.97	197.23	0.2583
1411	50	Biased	195.2	196.12	0.9231
1465	10	Unbiased	193.47	193.77	0.3073
1474	50	Biased	195.85	195.59	-0.2602
1504	50	Biased	195.27	196.32	1.0563
1540	100	Biased	198.07	197.68	-0.3932
1554	3	Unbiased	193.68	193.85	0.174
1662	30	Biased	196.78	197.53	0.753
1679	10	Biased	194.88	195.23	0.3513
1697	10	Biased	193.39	193.02	-0.3694
1703	30	Biased	195.7	195.8	0.0994
1704	10	Unbiased	192.13	191.82	-0.3161
1736	30	Biased	197.66	197.75	0.0844
1737	0	Correlation	195.1	195.09	-0.0145
1748	0	Correlation	195.85	195.89	0.0437

Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	195.1	196.69	199.96	1.9071	195.09	196.7	200.02	1.9288	-0.0145	0.01596	0.055	0.031456
3	192.59	195.53	198.64	2.1155	192.3	195.65	198.89	2.1961	-0.2919	0.12195	0.356	0.19616
10	192.13	194.92	197.94	1.9969	191.82	194.91	197.9	2.0862	-0.3694	-0.00737	0.3513	0.2533
30	194.17	196.41	197.88	1.21	194.8	196.78	198.54	1.3789	-0.2368	0.36854	1.0072	0.40875
50	193.02	195.82	201.3	2.4506	192.64	196.26	202.03	2.6514	-0.4646	0.43166	1.0563	0.53799
100	192.02	195.73	198.87	2.2589	190.85	195.72	199.33	2.395	-1.1671	-0.01206	1.4965	0.97109

Device Test: 20.39 LEVEL|FREQ/RT/12/12/0/0/5/500kHz//@FSW_EXT_RT_C





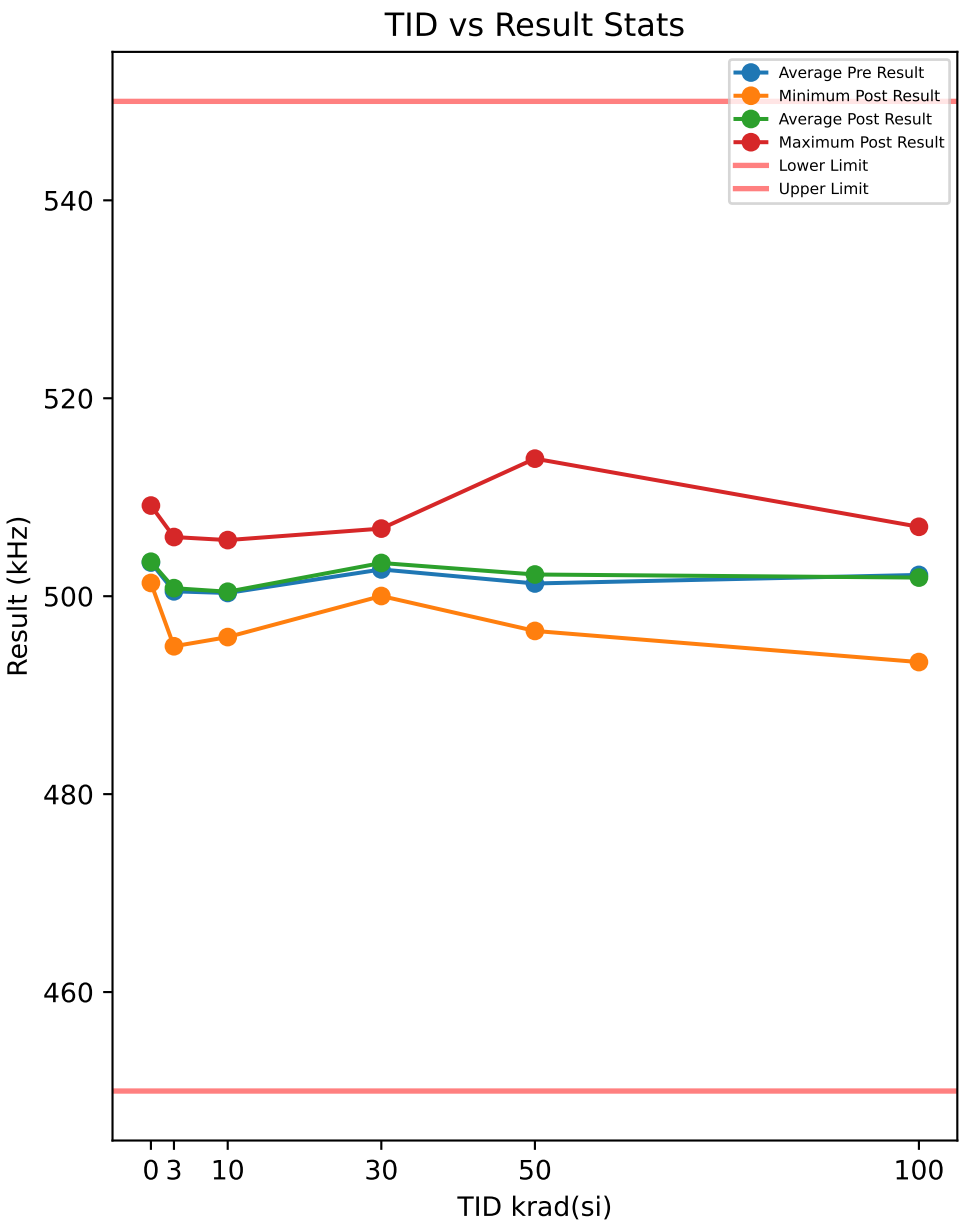
Test Results (Lower Limit = 450.0, Upper Limit = 550.0 (kHz))

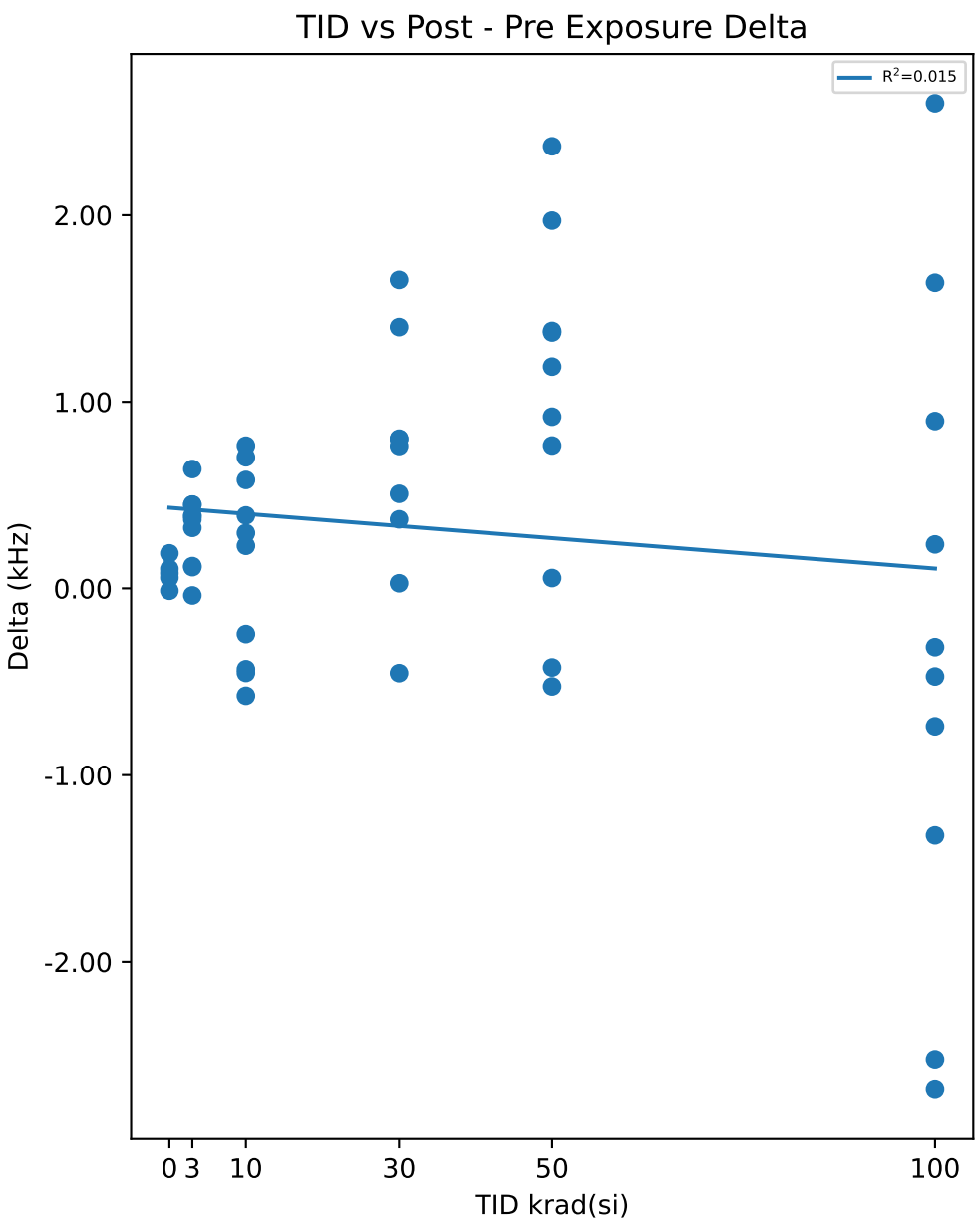
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	498.49	499.82	1.3295
411	100	Unbiased	495.87	493.37	-2.495
444	30	Unbiased	504.87	505.77	0.9005
454	10	Unbiased	498	497.55	-0.447
491	3	Unbiased	503	503.37	0.3762
500	100	Unbiased	506.79	507.06	0.2646
534	100	Biased	501.56	500.34	-1.2187
558	0	Correlation	502.74	502.79	0.0566
563	100	Biased	500.84	500.37	-0.4612
570	3	Unbiased	499.92	500.41	0.485
614	10	Unbiased	505.23	505.69	0.4609
675	3	Biased	505.69	506.06	0.3646
713	100	Unbiased	507.83	507.14	-0.6845
744	50	Biased	496.82	497.65	0.8294
799	50	Biased	496.44	496.55	0.102
842	30	Unbiased	500.23	500.74	0.5067
889	3	Unbiased	503.36	503.47	0.1025
901	3	Biased	499.91	500.28	0.3682
930	50	Unbiased	512.69	513.91	1.213
968	100	Unbiased	497.96	498.86	0.8931
976	100	Unbiased	500.01	501.66	1.6532
981	3	Biased	500.59	501.05	0.4644
1003	10	Biased	502.61	502.91	0.3025
1039	3	Biased	505.37	505.71	0.3429
1053	100	Biased	501.18	503.89	2.7038
1056	0	Correlation	502.52	502.7	0.177
1072	10	Biased	505.42	505.19	-0.2277
1095	50	Unbiased	505.8	507.24	1.4386
1099	0	Correlation	509.05	509.19	0.1411
1113	3	Biased	495.05	494.98	-0.0775
1142	10	Unbiased	504.38	504.95	0.5687
1154	10	Biased	495.67	495.99	0.324
1215	50	Unbiased	500.84	500.34	-0.4961
1222	100	Biased	503.45	500.74	-2.7057
1229	50	Unbiased	499.84	500.55	0.7152
1255	3	Unbiased	494.88	495	0.1209
1331	30	Unbiased	500.76	500.26	-0.4976
1359	30	Biased	503.62	505.2	1.5755
1375	30	Unbiased	500.05	499.99	-0.0674
1398	30	Biased	503.54	503.9	0.3575
1411	50	Biased	500.66	502.61	1.9555
1465	10	Unbiased	498.3	499.07	0.7667
1474	50	Biased	500.93	500.45	-0.481
1504	50	Biased	500.77	503.13	2.3551
1540	100	Biased	506.29	505.94	-0.3513
1554	3	Unbiased	497.57	498.28	0.7064
1662	30	Biased	505.04	506.42	1.3776
1679	10	Biased	500.65	501.34	0.6899
1697	10	Biased	496.76	496.27	-0.4913
1703	30	Biased	500.45	501.38	0.9274
1704	10	Unbiased	496.43	495.96	-0.4702
1736	30	Biased	506.08	506.77	0.6895
1737	0	Correlation	501.37	501.53	0.1681
1748	0	Correlation	501.4	501.42	0.0209

Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	501.37	503.42	509.05	3.2135	501.42	503.53	509.19	3.2307	0.0209	0.11274	0.177	0.069973
3	494.88	500.54	505.69	3.8805	494.98	500.86	506.06	3.9409	-0.0775	0.32536	0.7064	0.22362
10	495.67	500.34	505.42	3.8124	495.96	500.49	505.69	4.0112	-0.4913	0.14765	0.7667	0.50467
30	500.05	502.74	506.08	2.3743	499.99	503.38	506.77	2.7898	-0.4976	0.64108	1.5755	0.65805
50	496.44	501.33	512.69	4.7704	496.55	502.22	513.91	5.0667	-0.4961	0.89612	2.3551	0.9624
100	495.87	502.18	507.83	3.9045	493.37	501.94	507.14	4.2492	-2.7057	-0.24017	2.7038	1.7052

Device Test: 20.43 LEVEL|FREQ/RT/14/14/0/0/5/500kHz//@FSW_EXT_RT_C





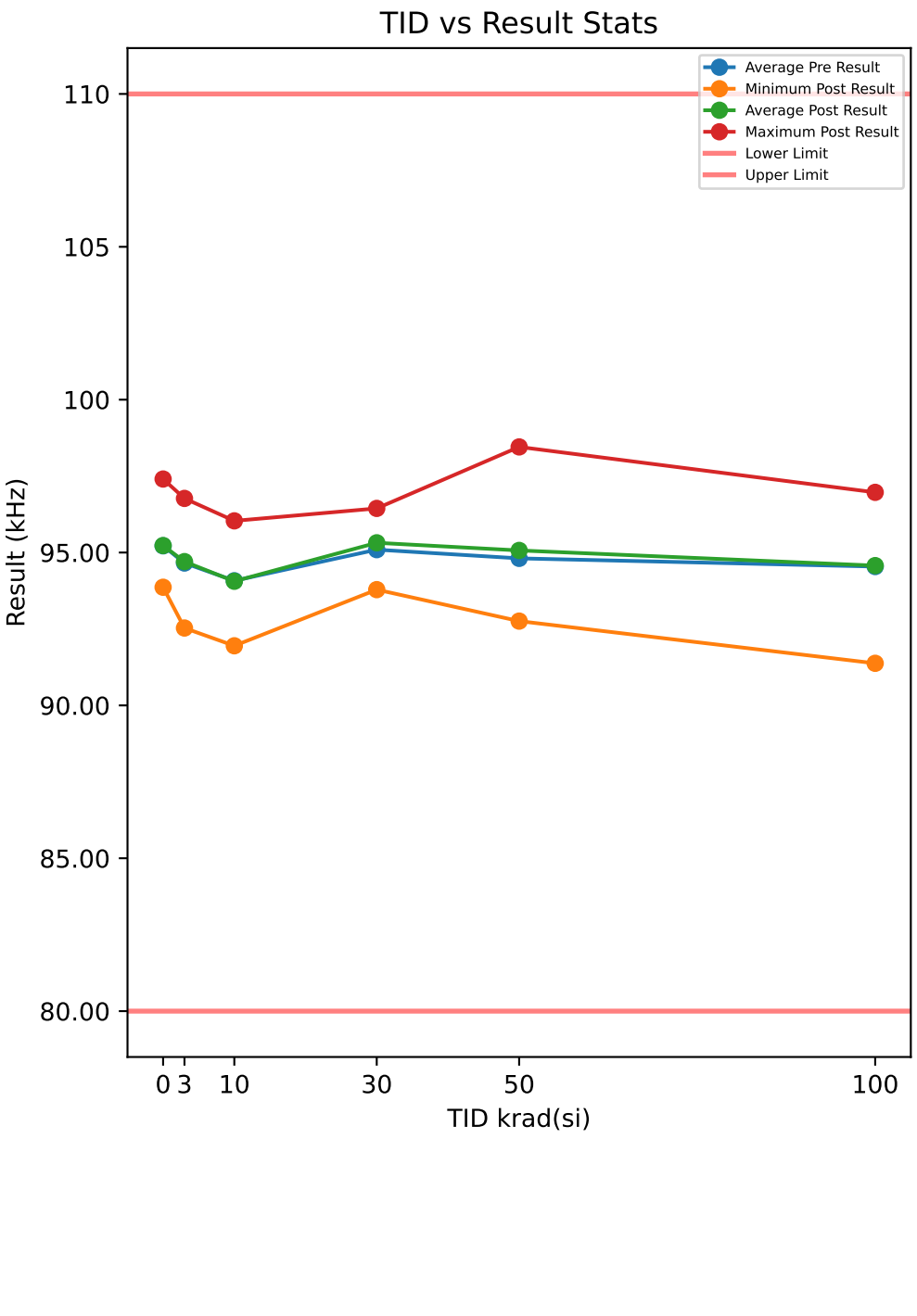
Test Results (Lower Limit = 450.0, Upper Limit = 550.0 (kHz))

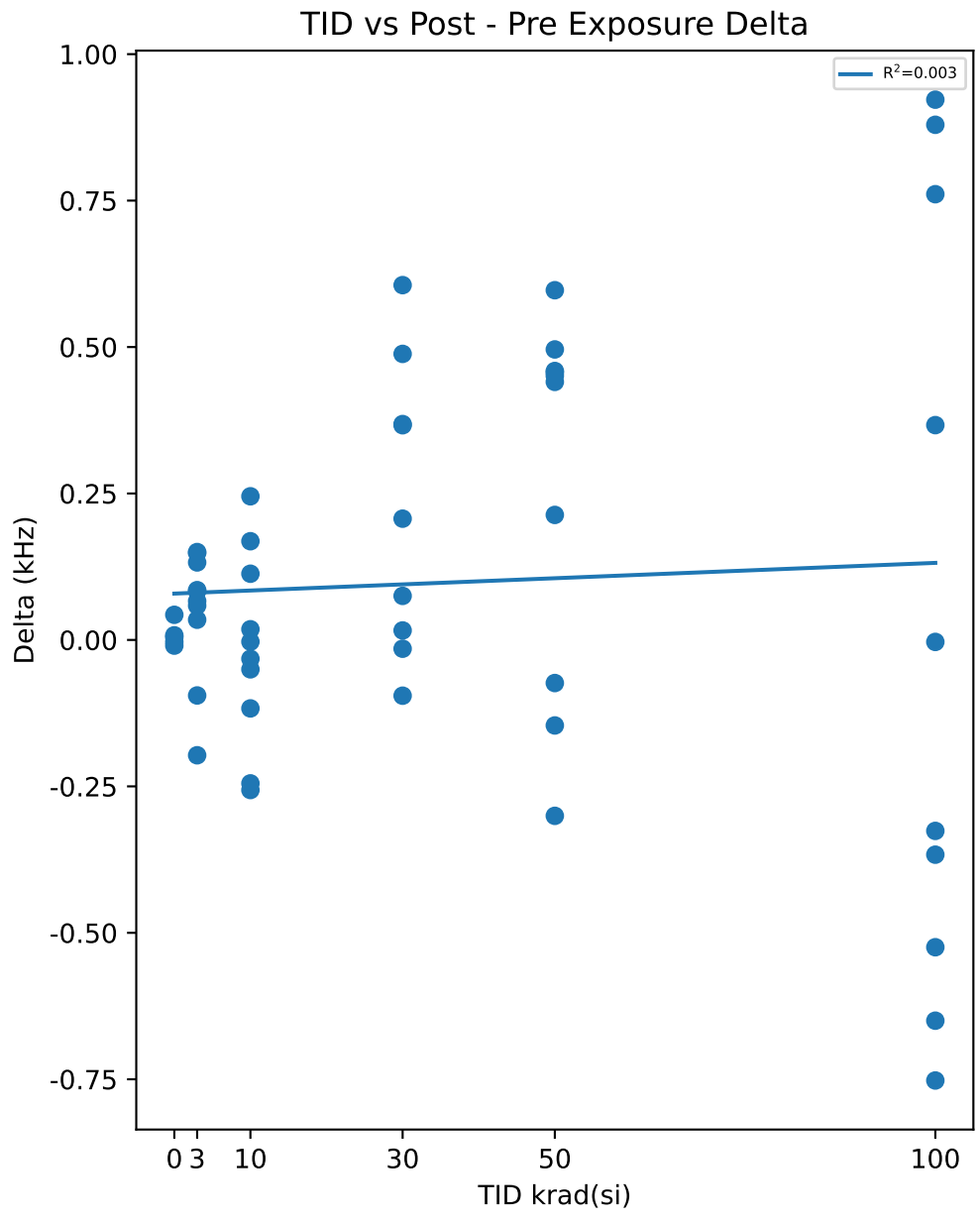
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	498.45	499.82	1.3718
411	100	Unbiased	495.87	493.34	-2.522
444	30	Unbiased	504.86	505.66	0.7997
454	10	Unbiased	497.91	497.48	-0.4326
491	3	Unbiased	502.99	503.37	0.3865
500	100	Unbiased	506.78	507.01	0.2357
534	100	Biased	501.63	500.3	-1.3233
558	0	Correlation	502.72	502.78	0.0575
563	100	Biased	500.78	500.31	-0.4715
570	3	Unbiased	499.93	500.38	0.4495
614	10	Unbiased	505.28	505.67	0.3912
675	3	Biased	505.65	505.98	0.3245
713	100	Unbiased	507.74	507	-0.7386
744	50	Biased	496.68	497.6	0.9205
799	50	Biased	496.43	496.49	0.0554
842	30	Unbiased	500.21	500.72	0.5071
889	3	Unbiased	503.29	503.41	0.1193
901	3	Biased	499.86	500.25	0.3903
930	50	Unbiased	512.71	513.9	1.1889
968	100	Unbiased	497.9	498.8	0.8972
976	100	Unbiased	499.98	501.62	1.6378
981	3	Biased	500.53	500.98	0.449
1003	10	Biased	502.59	502.88	0.2967
1039	3	Biased	505.31	505.68	0.3699
1053	100	Biased	501.21	503.81	2.6001
1056	0	Correlation	502.48	502.67	0.1878
1072	10	Biased	505.4	505.16	-0.2445
1095	50	Unbiased	505.79	507.17	1.3801
1099	0	Correlation	509.08	509.16	0.0813
1113	3	Biased	494.98	494.94	-0.0379
1142	10	Unbiased	504.34	504.93	0.5814
1154	10	Biased	495.71	495.94	0.2283
1215	50	Unbiased	500.86	500.33	-0.5246
1222	100	Biased	503.39	500.71	-2.6855
1229	50	Unbiased	499.79	500.55	0.7661
1255	3	Unbiased	494.86	494.97	0.1137
1331	30	Unbiased	500.7	500.25	-0.4534
1359	30	Biased	503.56	505.22	1.6531
1375	30	Unbiased	499.99	500.02	0.0274
1398	30	Biased	503.48	503.85	0.3703
1411	50	Biased	500.57	502.54	1.9709
1465	10	Unbiased	498.28	499.05	0.7652
1474	50	Biased	500.87	500.44	-0.4232
1504	50	Biased	500.71	503.08	2.3694
1540	100	Biased	506.22	505.91	-0.3145
1554	3	Unbiased	497.53	498.17	0.6399
1662	30	Biased	504.96	506.36	1.4006
1679	10	Biased	500.59	501.29	0.703
1697	10	Biased	496.71	496.26	-0.4522
1703	30	Biased	500.5	501.31	0.8028
1704	10	Unbiased	496.44	495.87	-0.5747
1736	30	Biased	506.07	506.83	0.7635
1737	0	Correlation	501.36	501.46	0.1045
1748	0	Correlation	501.35	501.34	-0.0127

Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	501.35	503.4	509.08	3.2364	501.34	503.48	509.16	3.2421	-0.0127	0.08368	0.1878	0.072895
3	494.86	500.49	505.65	3.8805	494.94	500.81	505.98	3.9408	-0.0379	0.32047	0.6399	0.1996
10	495.71	500.33	505.4	3.8165	495.87	500.45	505.67	4.0249	-0.5747	0.12618	0.7652	0.50919
30	499.99	502.7	506.07	2.367	500.02	503.36	506.83	2.7857	-0.4534	0.65234	1.6531	0.64537
50	496.43	501.29	512.71	4.7968	496.49	502.19	513.9	5.0685	-0.5246	0.90753	2.3694	0.96344
100	495.87	502.15	507.74	3.8872	493.34	501.88	507.01	4.2325	-2.6855	-0.26846	2.6001	1.6922

Device Test: 20.47 LEVEL|FREQ/RT/12/12/0/1000/5/100kHz//@FSW_EXT_RT_A





Test Results (Lower Limit = 80.0, Upper Limit = 110.0 (kHz))

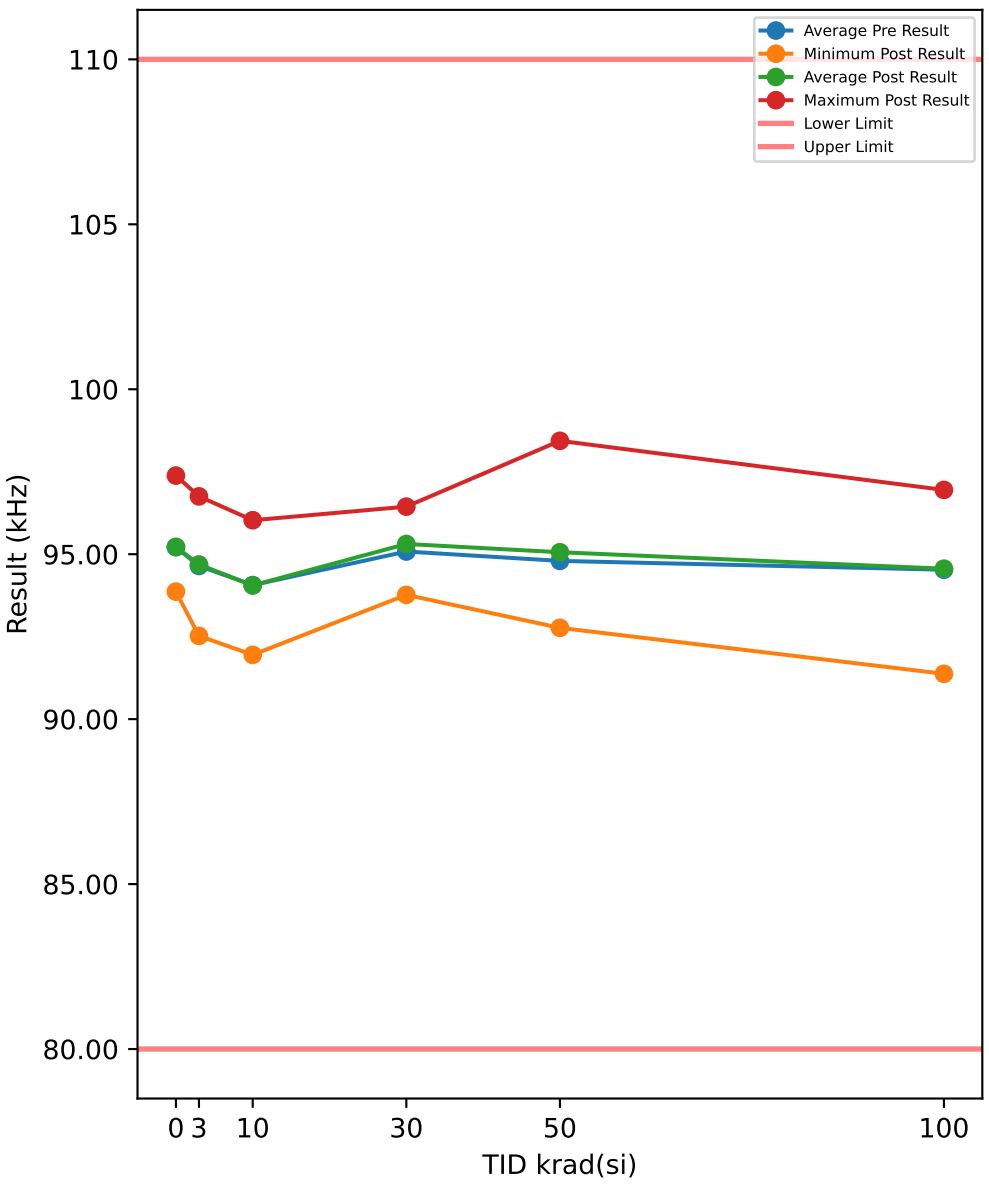
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	94.524	94.975	0.451
411	100	Unbiased	92.129	91.377	-0.7521
444	30	Unbiased	96.075	96.443	0.3685
454	10	Unbiased	93.815	93.698	-0.1169
491	3	Unbiased	95.559	95.692	0.1323
500	100	Unbiased	96.602	96.969	0.3667
534	100	Biased	94.564	93.914	-0.65
558	0	Correlation	95.291	95.299	0.0079
563	100	Biased	94.904	94.537	-0.3666
570	3	Unbiased	93.75	93.835	0.085
614	10	Unbiased	95.935	95.953	0.0182
675	3	Biased	96.687	96.77	0.0834
713	100	Unbiased	96.073	96.069	-0.0034
744	50	Biased	93.076	93.517	0.4405
799	50	Biased	93.057	92.757	-0.3003
842	30	Unbiased	93.42	93.786	0.3665
889	3	Unbiased	95.753	95.658	-0.0948
901	3	Biased	94.805	94.953	0.1485
930	50	Unbiased	97.958	98.454	0.4959
968	100	Unbiased	93.062	93.823	0.7609
976	100	Unbiased	93.133	94.013	0.8794
981	3	Biased	94.579	94.613	0.0345
1003	10	Biased	94.973	94.923	-0.0502
1039	3	Biased	96.038	96.097	0.0586
1053	100	Biased	94.126	95.049	0.9223
1056	0	Correlation	94.809	94.806	-0.0033
1072	10	Biased	94.608	94.576	-0.0322
1095	50	Unbiased	96.325	96.922	0.597
1099	0	Correlation	97.361	97.404	0.0429
1113	3	Biased	92.728	92.531	-0.1969
1142	10	Unbiased	95.923	96.036	0.113
1154	10	Biased	93.162	93.159	-0.003
1215	50	Unbiased	95.248	95.174	-0.0736
1222	100	Biased	94.776	94.251	-0.5246
1229	50	Unbiased	94.231	94.445	0.2134
1255	3	Unbiased	93.161	93.228	0.0664
1331	30	Unbiased	94.573	94.478	-0.0952
1359	30	Biased	95.786	96.392	0.6057
1375	30	Unbiased	95.079	95.064	-0.015
1398	30	Biased	95.589	95.796	0.207
1411	50	Biased	94.404	94.861	0.4567
1465	10	Unbiased	93.118	93.286	0.1685
1474	50	Biased	94.829	94.683	-0.146
1504	50	Biased	94.438	94.897	0.4591
1540	100	Biased	96.048	95.722	-0.326
1554	3	Unbiased	93.504	93.654	0.15
1662	30	Biased	94.958	95.446	0.4883
1679	10	Biased	93.878	94.124	0.2452
1697	10	Biased	93.158	92.902	-0.2562
1703	30	Biased	94.742	94.758	0.0162
1704	10	Unbiased	92.195	91.95	-0.2449
1736	30	Biased	95.625	95.701	0.0752
1737	0	Correlation	93.859	93.864	0.0047
1748	0	Correlation	94.776	94.766	-0.0097

Test Statistics (kHz)

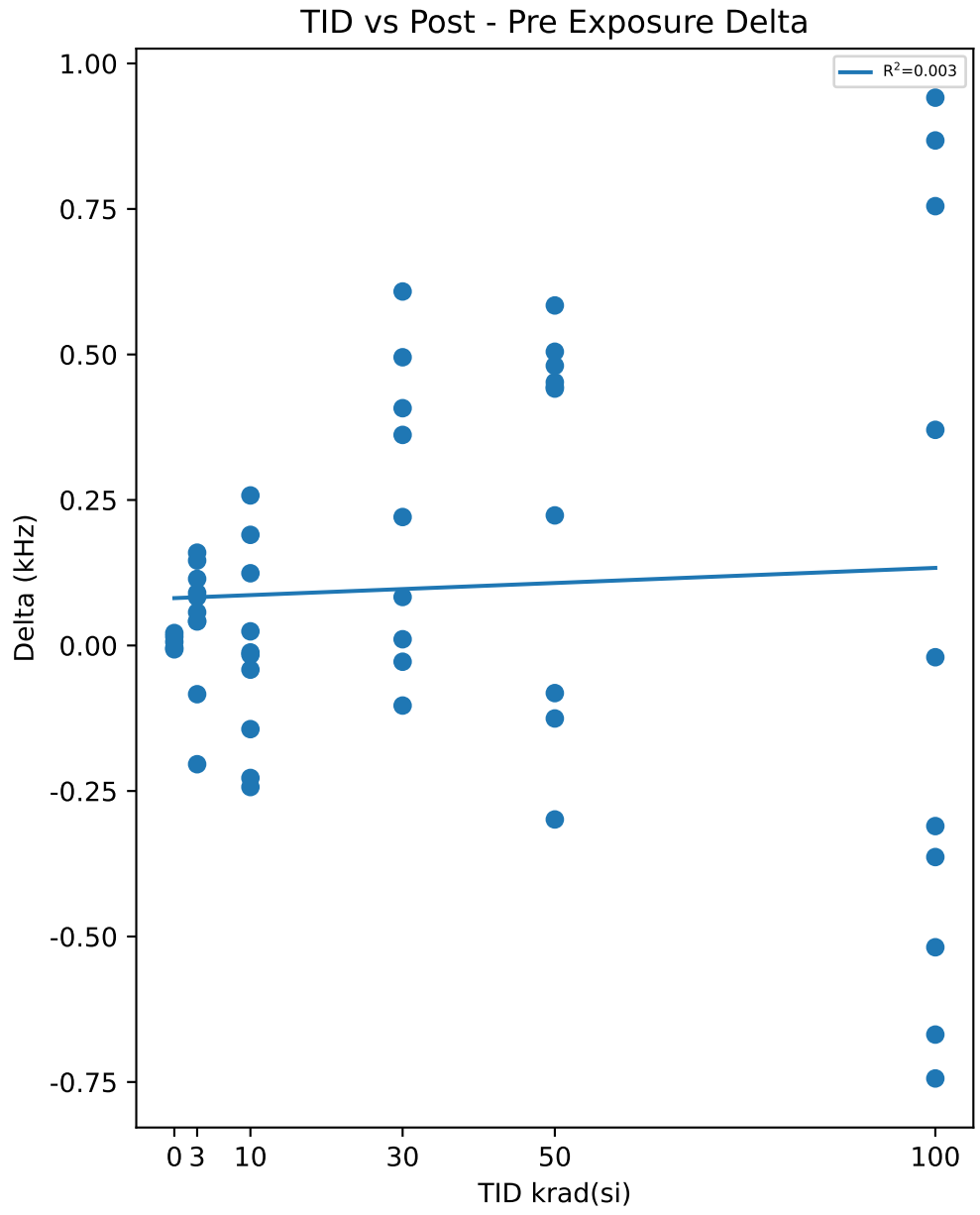
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	93.859	95.219	97.361	1.3044	93.864	95.228	97.404	1.3221	-0.0097	0.0085	0.0429	0.020424
3	92.728	94.656	96.687	1.3409	92.531	94.703	96.77	1.3713	-0.1969	0.0467	0.15	0.11116
10	92.195	94.076	95.935	1.256	91.95	94.061	96.036	1.3266	-0.2562	-0.01585	0.2452	0.16396
30	93.42	95.094	96.075	0.80515	93.786	95.318	96.443	0.88326	-0.0952	0.22413	0.6057	0.24529
50	93.057	94.809	97.958	1.4605	92.757	95.069	98.454	1.6084	-0.3003	0.25937	0.597	0.31778
100	92.129	94.542	96.602	1.461	91.377	94.572	96.969	1.5332	-0.7521	0.03066	0.9223	0.65252

Device Test: 20.49 LEVEL|FREQ/RT/14/14/0/1000/5/100kHz//@FSW_EXT_RT_A

TID vs Result Stats



TID vs Post - Pre Exposure Delta



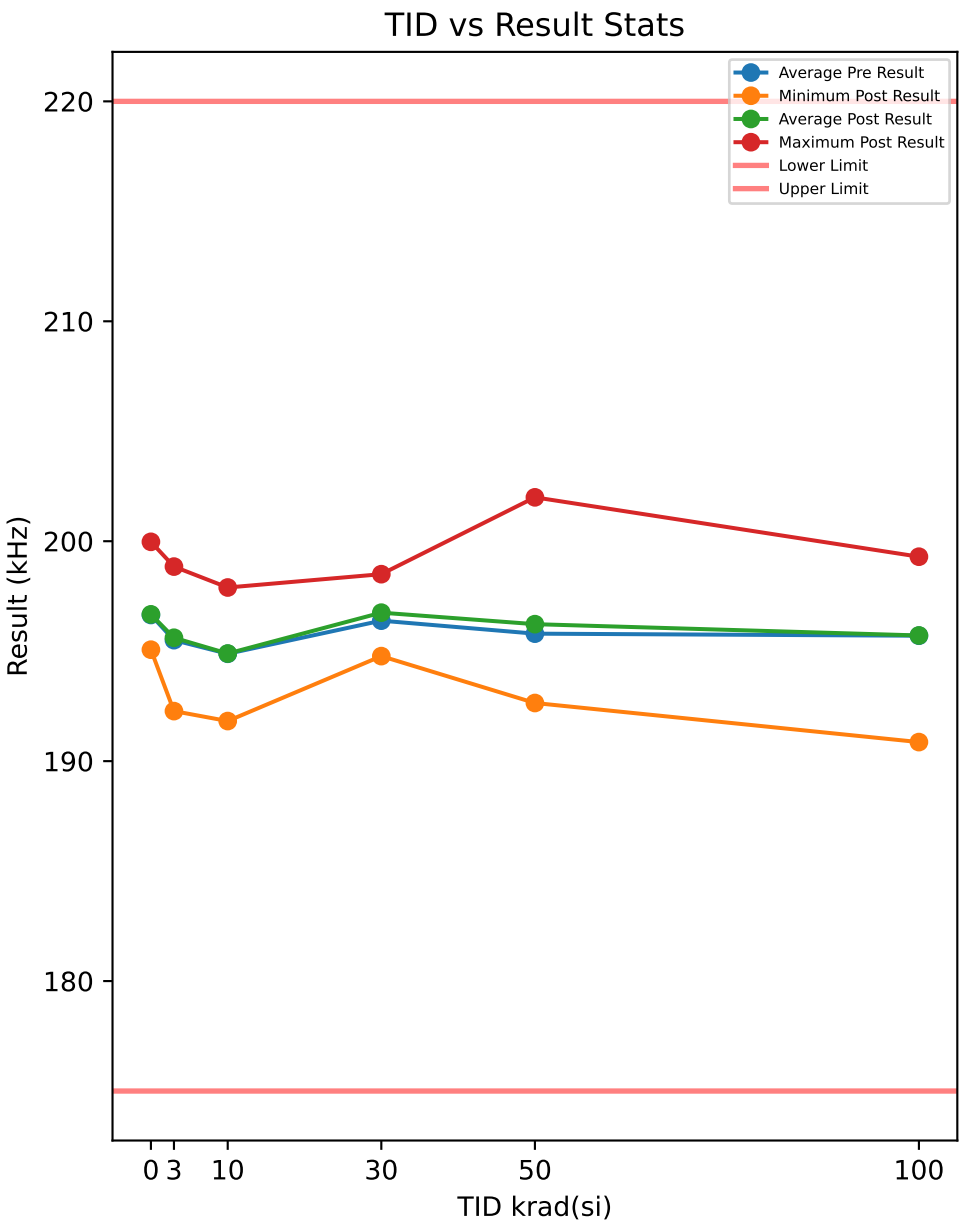
Test Results (Lower Limit = 80.0, Upper Limit = 110.0 (kHz))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	94.514	94.966	0.4523
411	100	Unbiased	92.118	91.374	-0.7439
444	30	Unbiased	96.034	96.441	0.4077
454	10	Unbiased	93.813	93.669	-0.1437
491	3	Unbiased	95.562	95.676	0.1145
500	100	Unbiased	96.578	96.948	0.3705
534	100	Biased	94.557	93.889	-0.6685
558	0	Correlation	95.283	95.298	0.0153
563	100	Biased	94.89	94.526	-0.3635
570	3	Unbiased	93.74	93.823	0.0833
614	10	Unbiased	95.914	95.938	0.0243
675	3	Biased	96.662	96.753	0.0904
713	100	Unbiased	96.079	96.059	-0.0202
744	50	Biased	93.061	93.502	0.4414
799	50	Biased	93.066	92.767	-0.2989
842	30	Unbiased	93.406	93.768	0.3618
889	3	Unbiased	95.731	95.648	-0.0837
901	3	Biased	94.782	94.941	0.1595
930	50	Unbiased	97.932	98.437	0.5047
968	100	Unbiased	93.055	93.81	0.7548
976	100	Unbiased	93.129	93.996	0.8677
981	3	Biased	94.55	94.592	0.0419
1003	10	Biased	94.962	94.921	-0.0415
1039	3	Biased	96.015	96.072	0.0571
1053	100	Biased	94.112	95.053	0.9412
1056	0	Correlation	94.799	94.795	-0.0038
1072	10	Biased	94.606	94.591	-0.0159
1095	50	Unbiased	96.325	96.909	0.5842
1099	0	Correlation	97.361	97.383	0.0214
1113	3	Biased	92.727	92.523	-0.204
1142	10	Unbiased	95.906	96.03	0.1241
1154	10	Biased	93.151	93.14	-0.0119
1215	50	Unbiased	95.236	95.154	-0.0818
1222	100	Biased	94.75	94.231	-0.5185
1229	50	Unbiased	94.223	94.446	0.2235
1255	3	Unbiased	93.167	93.208	0.0413
1331	30	Unbiased	94.563	94.46	-0.1032
1359	30	Biased	95.78	96.388	0.6082
1375	30	Unbiased	95.087	95.059	-0.0279
1398	30	Biased	95.57	95.791	0.2207
1411	50	Biased	94.396	94.841	0.4444
1465	10	Unbiased	93.084	93.274	0.1901
1474	50	Biased	94.801	94.676	-0.1254
1504	50	Biased	94.413	94.894	0.4806
1540	100	Biased	96.032	95.721	-0.3103
1554	3	Unbiased	93.5	93.646	0.146
1662	30	Biased	94.962	95.457	0.4952
1679	10	Biased	93.872	94.13	0.2578
1697	10	Biased	93.129	92.901	-0.2276
1703	30	Biased	94.738	94.749	0.0107
1704	10	Unbiased	92.191	91.948	-0.2432
1736	30	Biased	95.592	95.675	0.0833
1737	0	Correlation	93.859	93.866	0.0063
1748	0	Correlation	94.769	94.762	-0.0066

Test Statistics (kHz)

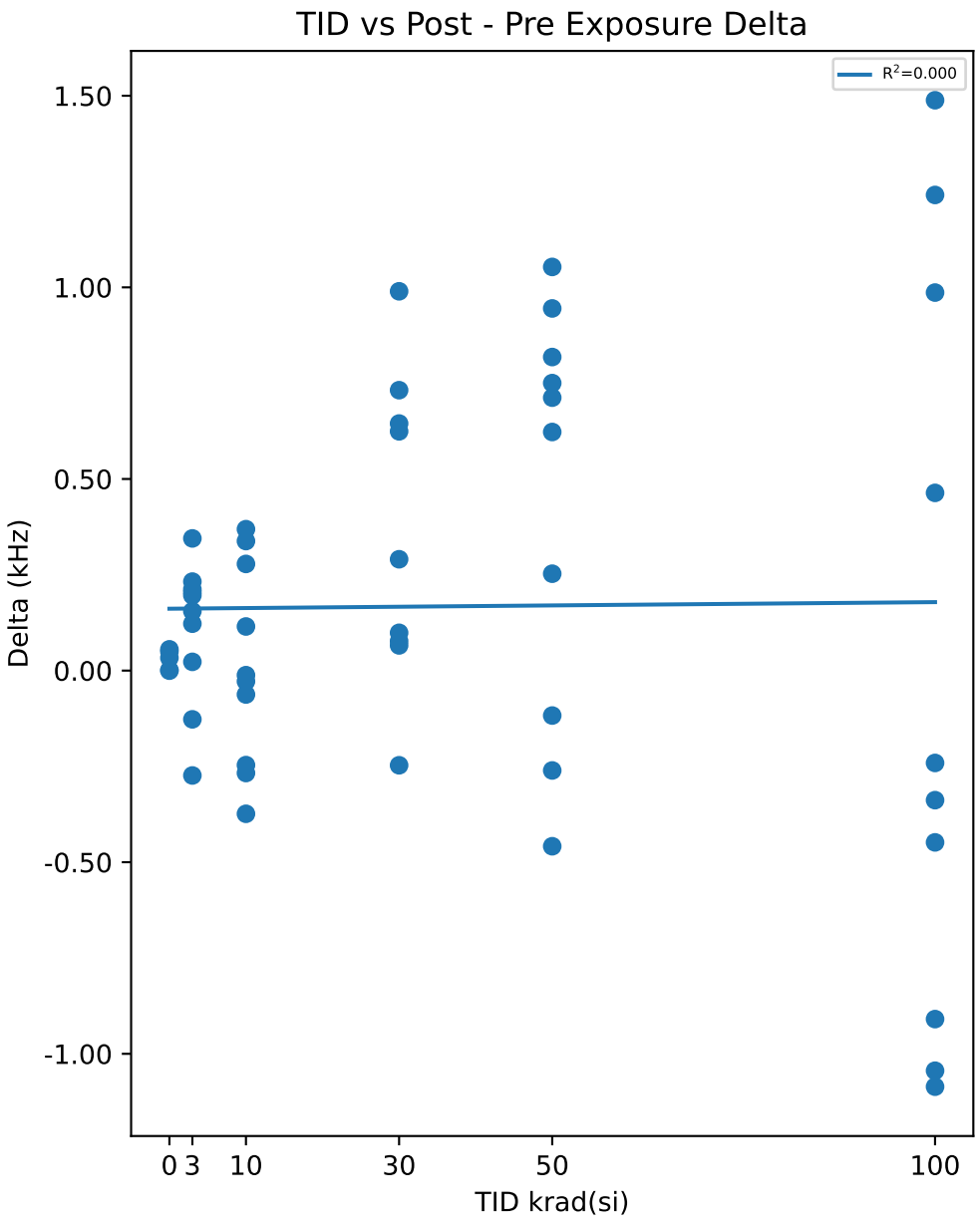
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	93.859	95.214	97.361	1.3059	93.866	95.221	97.383	1.3142	-0.0066	0.00652	0.0214	0.012012
3	92.727	94.644	96.662	1.3329	92.523	94.688	96.753	1.3687	-0.204	0.04463	0.1595	0.11076
10	92.191	94.063	95.914	1.2556	91.948	94.054	96.03	1.3272	-0.2432	-0.00875	0.2578	0.16718
30	93.406	95.081	96.034	0.79859	93.768	95.31	96.441	0.88795	-0.1032	0.2285	0.6082	0.25237
50	93.061	94.797	97.932	1.4562	92.767	95.059	98.437	1.6029	-0.2989	0.2625	0.5842	0.31562
100	92.118	94.53	96.578	1.4589	91.374	94.561	96.948	1.5322	-0.7439	0.03093	0.9412	0.6527

Device Test: 20.51 LEVEL|FREQ/RT/12/12/0/1000/5/200kHz//@FSW_EXT_RT_B



Test Results (Lower Limit = 175.0, Upper Limit = 220.0 (kHz))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	194.92	195.74	0.8182
411	100	Unbiased	191.95	190.87	-1.0858
444	30	Unbiased	197.86	198.5	0.6447
454	10	Unbiased	194.21	193.96	-0.2466
491	3	Unbiased	196.83	197.04	0.2121
500	100	Unbiased	198.83	199.3	0.4637
534	100	Biased	195.59	194.68	-0.9094
558	0	Correlation	196.55	196.55	0.0013
563	100	Biased	195.71	195.26	-0.4483
570	3	Unbiased	194.5	194.52	0.0228
614	10	Unbiased	197.91	197.9	-0.0119
675	3	Biased	198.61	198.85	0.2322
713	100	Unbiased	198.45	198.2	-0.241
744	50	Biased	192.99	193.61	0.6226
799	50	Biased	193.1	192.64	-0.4584
842	30	Unbiased	194.15	194.78	0.6243
889	3	Unbiased	197.23	197.11	-0.1272
901	3	Biased	195.49	195.83	0.3449
930	50	Unbiased	201.28	202	0.7122
968	100	Unbiased	193.31	194.3	0.9864
976	100	Unbiased	193.98	195.22	1.2411
981	3	Biased	195.46	195.58	0.1224
1003	10	Biased	196.15	196.12	-0.0281
1039	3	Biased	197.89	198.1	0.2044
1053	100	Biased	195.09	196.58	1.4883
1056	0	Correlation	195.87	195.91	0.0496
1072	10	Biased	196.39	196.32	-0.0624
1095	50	Unbiased	198.39	199.14	0.7502
1099	0	Correlation	199.94	199.97	0.0332
1113	3	Biased	192.55	192.27	-0.2737
1142	10	Unbiased	197.47	197.75	0.2783
1154	10	Biased	192.99	193.11	0.1151
1215	50	Unbiased	196.1	195.99	-0.1173
1222	100	Biased	196.13	195.08	-1.0441
1229	50	Unbiased	194.98	195.24	0.2528
1255	3	Unbiased	192.8	193	0.1963
1331	30	Unbiased	195.41	195.17	-0.2471
1359	30	Biased	197.25	198.24	0.9897
1375	30	Unbiased	195.8	195.87	0.0657
1398	30	Biased	196.95	197.24	0.2905
1411	50	Biased	195.16	196.1	0.945
1465	10	Unbiased	193.43	193.76	0.338
1474	50	Biased	195.81	195.55	-0.2606
1504	50	Biased	195.23	196.28	1.0533
1540	100	Biased	198	197.66	-0.3381
1554	3	Unbiased	193.64	193.8	0.1549
1662	30	Biased	196.76	197.5	0.7317
1679	10	Biased	194.82	195.19	0.369
1697	10	Biased	193.37	193	-0.3737
1703	30	Biased	195.67	195.77	0.0986
1704	10	Unbiased	192.09	191.82	-0.2673
1736	30	Biased	197.63	197.71	0.077
1737	0	Correlation	195.07	195.07	-0.0002
1748	0	Correlation	195.81	195.87	0.0555

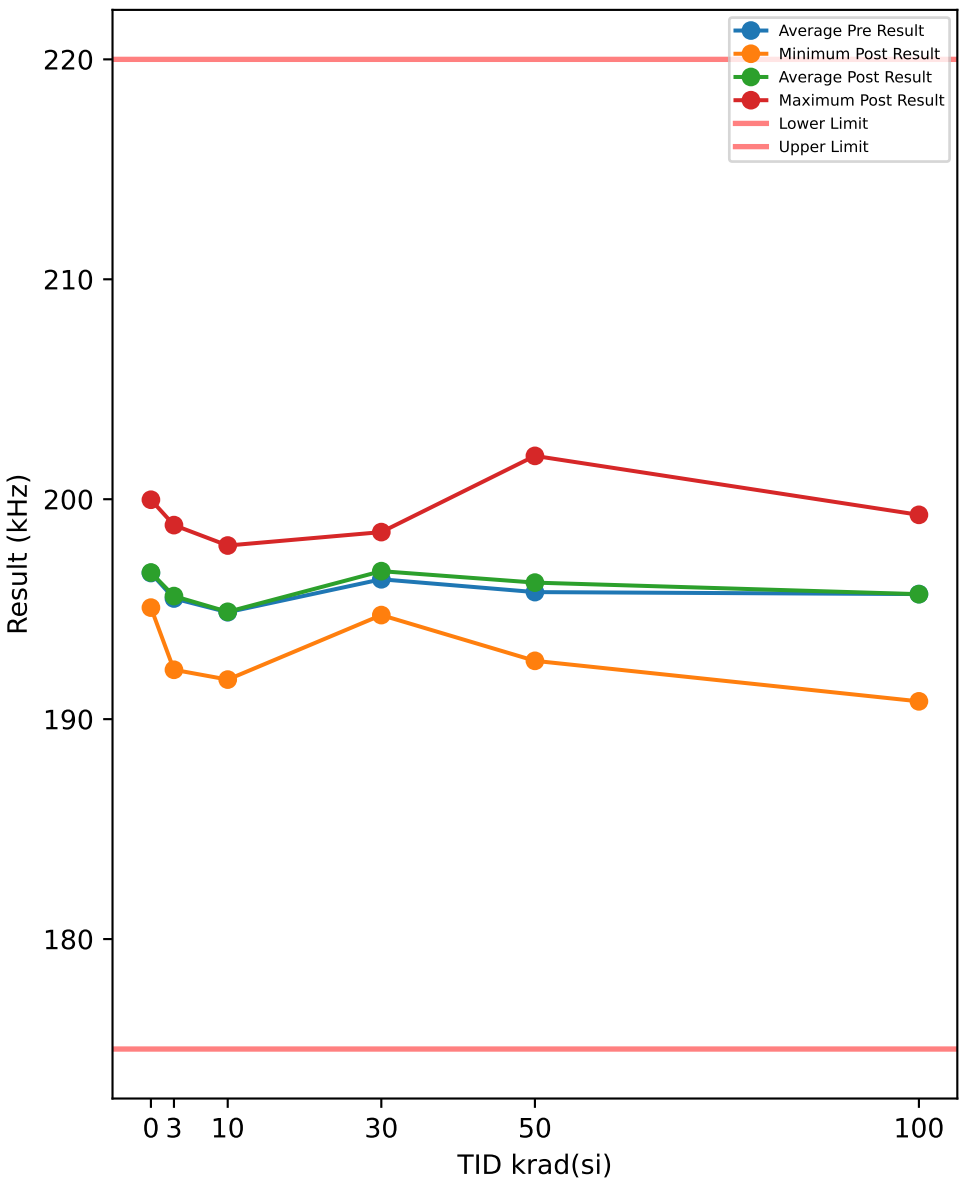


Test Statistics (kHz)

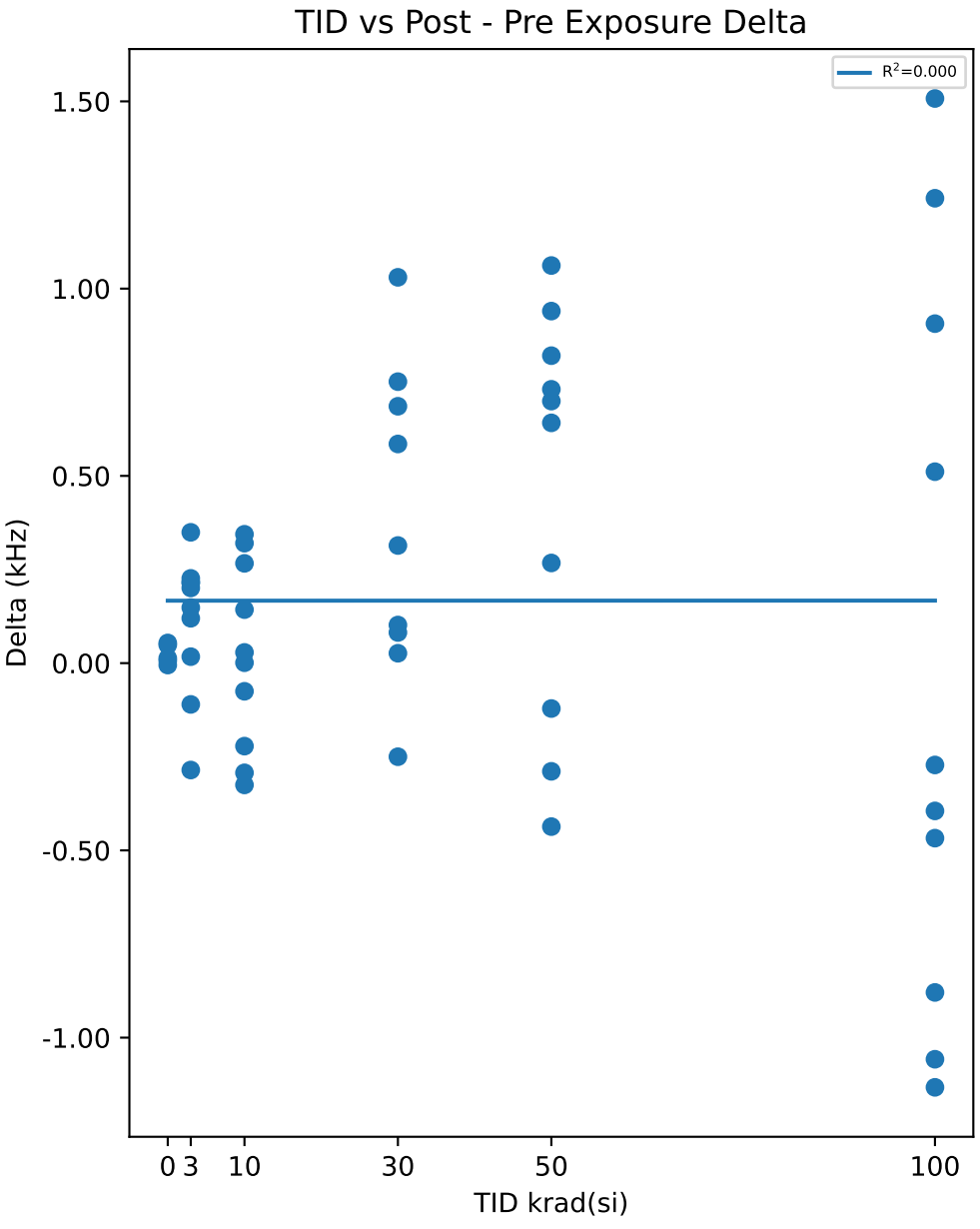
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	195.07	196.65	199.94	1.9138	195.07	196.67	199.97	1.9172	-0.0002	0.02788	0.0555	0.026258
3	192.55	195.5	198.61	2.1241	192.27	195.61	198.85	2.1954	-0.2737	0.10891	0.3449	0.18564
10	192.09	194.88	197.91	1.999	191.82	194.89	197.9	2.0865	-0.3737	0.01104	0.369	0.26175
30	194.15	196.39	197.86	1.2096	194.78	196.75	198.5	1.3758	-0.2471	0.3639	0.9897	0.40216
50	192.99	195.8	201.28	2.4543	192.64	196.23	202	2.6495	-0.4584	0.4318	1.0533	0.53963
100	191.95	195.7	198.83	2.2586	190.87	195.71	199.3	2.3802	-1.0858	0.01128	1.4883	0.96676

Device Test: 20.53 LEVEL|FREQ/RT/14/14/0/1000/5/200kHz//@FSW_EXT_RT_B

TID vs Result Stats



TID vs Post - Pre Exposure Delta



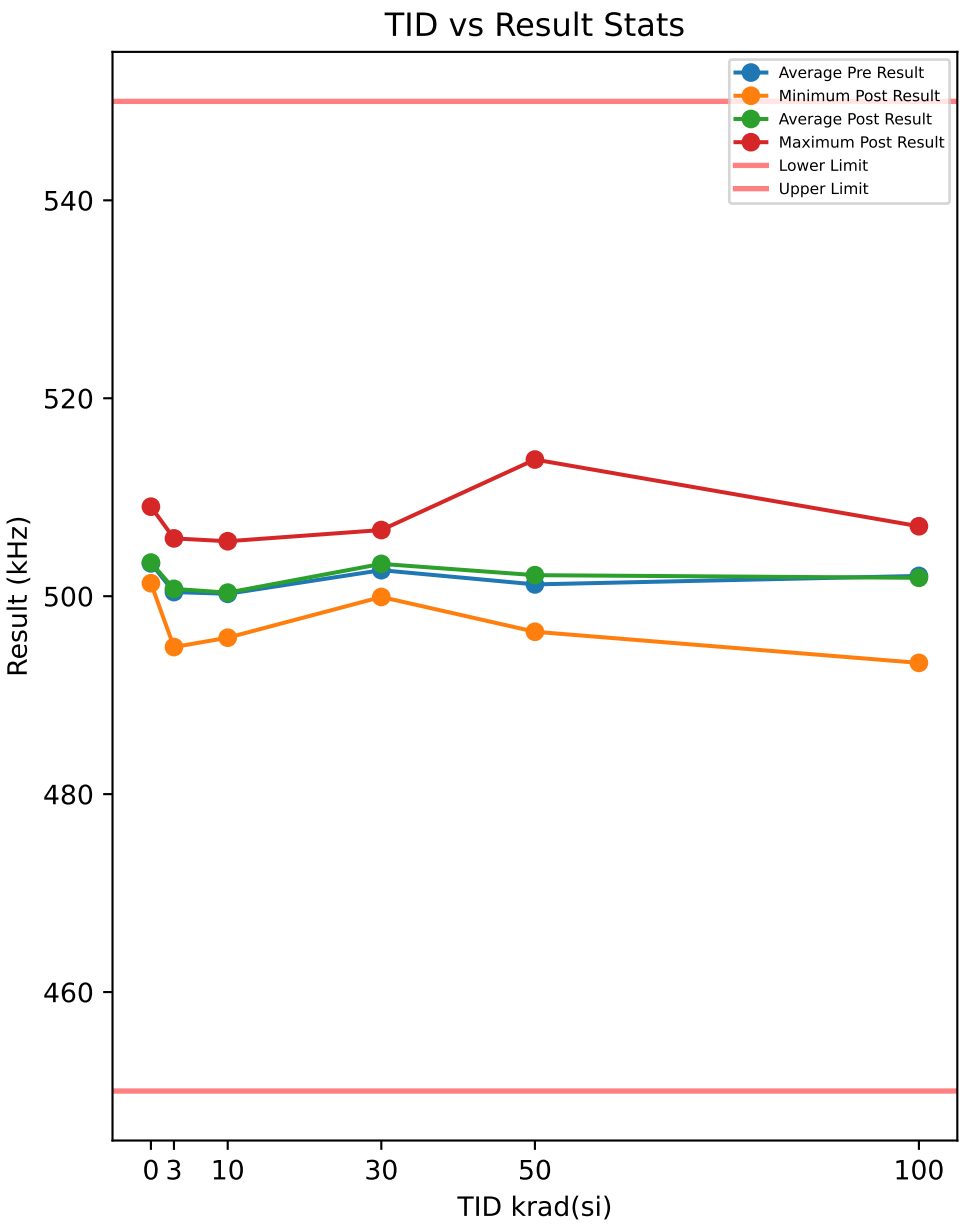
Test Results (Lower Limit = 175.0, Upper Limit = 220.0 (kHz))

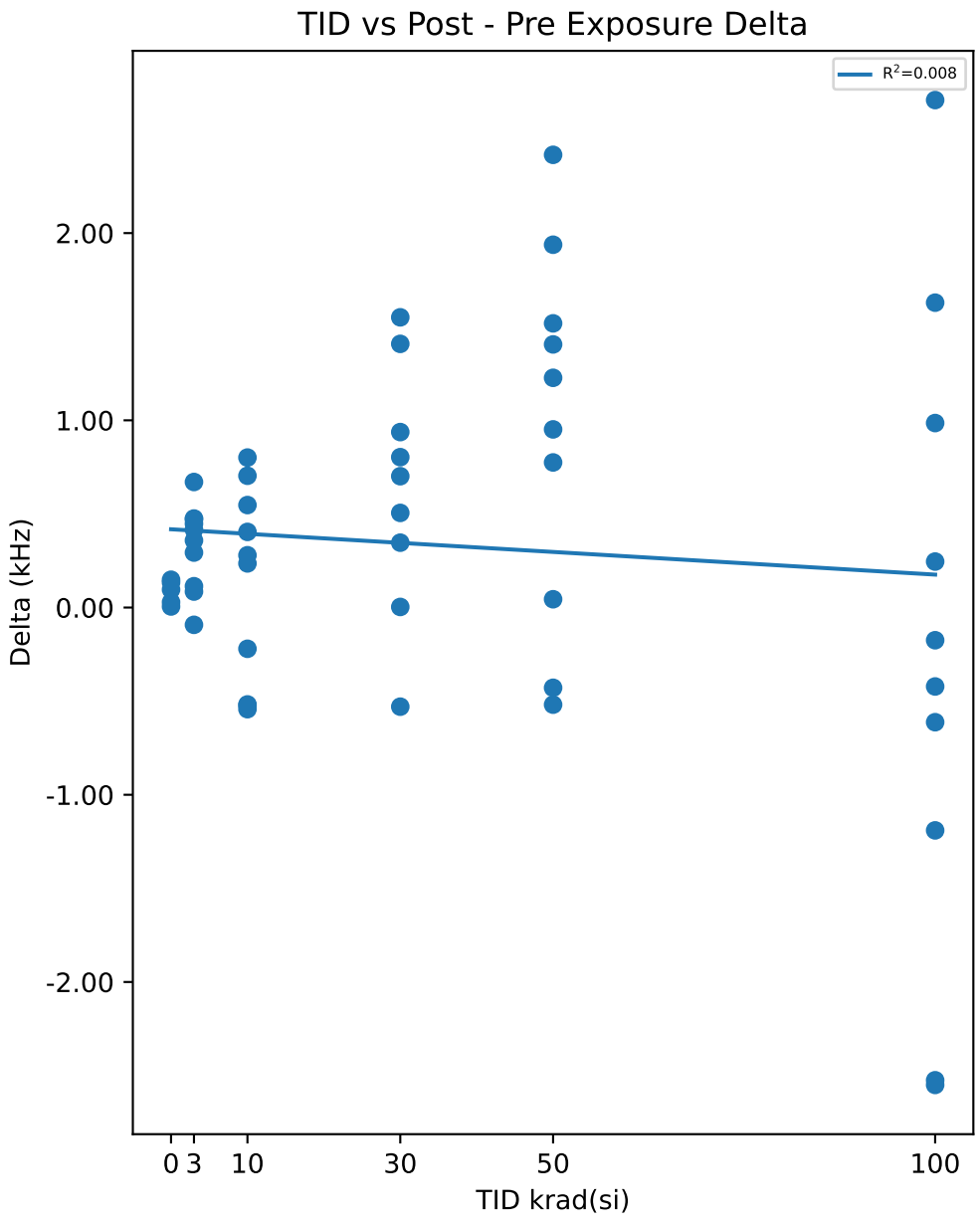
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	194.91	195.73	0.821
411	100	Unbiased	191.94	190.81	-1.1327
444	30	Unbiased	197.82	198.5	0.6859
454	10	Unbiased	194.16	193.94	-0.2216
491	3	Unbiased	196.83	197.06	0.2263
500	100	Unbiased	198.78	199.29	0.5112
534	100	Biased	195.56	194.68	-0.8793
558	0	Correlation	196.55	196.55	-0.0051
563	100	Biased	195.68	195.22	-0.4673
570	3	Unbiased	194.47	194.49	0.0173
614	10	Unbiased	197.89	197.89	0.0011
675	3	Biased	198.61	198.82	0.2148
713	100	Unbiased	198.42	198.15	-0.2719
744	50	Biased	192.97	193.61	0.6416
799	50	Biased	193.09	192.65	-0.4365
842	30	Unbiased	194.15	194.73	0.5852
889	3	Unbiased	197.18	197.07	-0.1102
901	3	Biased	195.48	195.83	0.3493
930	50	Unbiased	201.27	201.97	0.6997
968	100	Unbiased	193.34	194.24	0.9065
976	100	Unbiased	193.94	195.18	1.2413
981	3	Biased	195.45	195.57	0.1198
1003	10	Biased	196.1	196.13	0.0286
1039	3	Biased	197.86	198.08	0.2158
1053	100	Biased	195.06	196.57	1.5077
1056	0	Correlation	195.89	195.9	0.0132
1072	10	Biased	196.38	196.31	-0.0752
1095	50	Unbiased	198.36	199.09	0.7312
1099	0	Correlation	199.93	199.98	0.0486
1113	3	Biased	192.53	192.24	-0.2854
1142	10	Unbiased	197.47	197.73	0.2664
1154	10	Biased	192.96	193.1	0.1429
1215	50	Unbiased	196.07	195.94	-0.1212
1222	100	Biased	196.12	195.06	-1.0577
1229	50	Unbiased	194.93	195.2	0.2675
1255	3	Unbiased	192.8	193	0.2008
1331	30	Unbiased	195.39	195.14	-0.2499
1359	30	Biased	197.21	198.24	1.0302
1375	30	Unbiased	195.79	195.81	0.0264
1398	30	Biased	196.9	197.22	0.3141
1411	50	Biased	195.15	196.09	0.94
1465	10	Unbiased	193.42	193.74	0.3203
1474	50	Biased	195.81	195.52	-0.2889
1504	50	Biased	195.21	196.28	1.0617
1540	100	Biased	198.02	197.63	-0.3946
1554	3	Unbiased	193.63	193.78	0.1483
1662	30	Biased	196.75	197.5	0.7516
1679	10	Biased	194.83	195.17	0.3441
1697	10	Biased	193.32	192.99	-0.3252
1703	30	Biased	195.63	195.73	0.1018
1704	10	Unbiased	192.09	191.8	-0.2929
1736	30	Biased	197.6	197.69	0.0818
1737	0	Correlation	195.06	195.07	0.0064
1748	0	Correlation	195.79	195.85	0.0539

Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	195.06	196.64	199.93	1.9095	195.07	196.67	199.98	1.9219	-0.0051	0.0234	0.0539	0.026318
3	192.53	195.49	198.61	2.1214	192.24	195.6	198.82	2.1969	-0.2854	0.10968	0.3493	0.18744
10	192.09	194.86	197.89	2.0024	191.8	194.88	197.89	2.0904	-0.3252	0.01885	0.3441	0.24854
30	194.15	196.36	197.82	1.2016	194.73	196.73	198.5	1.3936	-0.2499	0.36968	1.0302	0.41654
50	192.97	195.78	201.27	2.455	192.65	196.21	201.97	2.6401	-0.4365	0.43161	1.0617	0.53935
100	191.94	195.69	198.78	2.2534	190.81	195.68	199.29	2.3885	-1.1327	-0.00368	1.5077	0.97296

Device Test: 20.55 LEVEL|FREQ/RT/12/12/0/1000/5/500kHz//@FSW_EXT_RT_C





Test Results (Lower Limit = 450.0, Upper Limit = 550.0 (kHz))

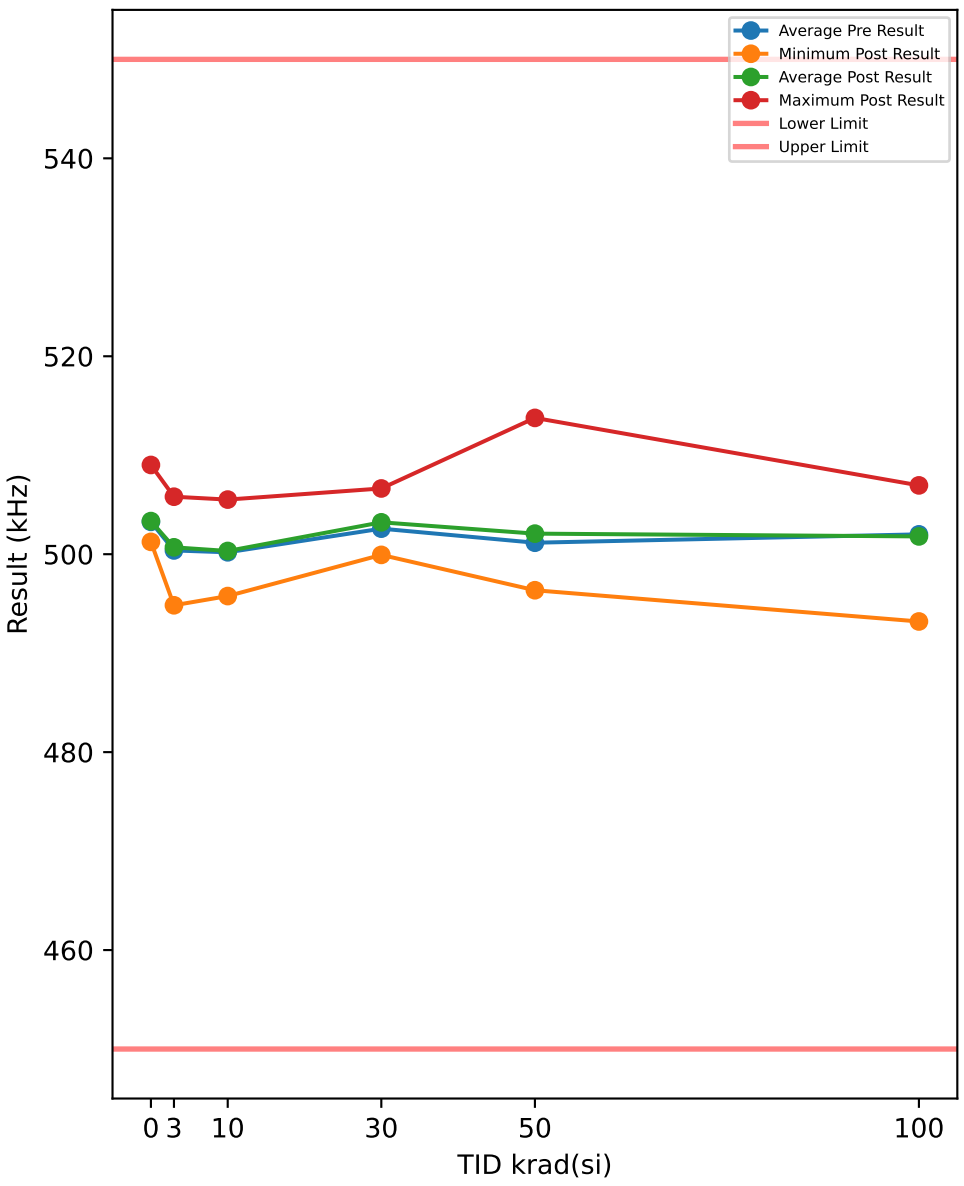
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	498.34	499.74	1.4054
411	100	Unbiased	495.81	493.26	-2.5498
444	30	Unbiased	504.8	505.6	0.8033
454	10	Unbiased	497.89	497.37	-0.5224
491	3	Unbiased	502.87	503.29	0.4158
500	100	Unbiased	506.68	506.93	0.2456
534	100	Biased	501.44	500.25	-1.1902
558	0	Correlation	502.61	502.64	0.0287
563	100	Biased	500.71	500.29	-0.4216
570	3	Unbiased	499.81	500.29	0.4754
614	10	Unbiased	505.15	505.55	0.404
675	3	Biased	505.55	505.84	0.2936
713	100	Unbiased	507.68	507.07	-0.6124
744	50	Biased	496.59	497.54	0.9515
799	50	Biased	496.36	496.41	0.0443
842	30	Unbiased	500.16	500.67	0.5055
889	3	Unbiased	503.22	503.31	0.0854
901	3	Biased	499.79	500.23	0.448
930	50	Unbiased	512.58	513.81	1.227
968	100	Unbiased	497.85	498.83	0.9854
976	100	Unbiased	499.87	501.5	1.6284
981	3	Biased	500.47	500.94	0.4722
1003	10	Biased	502.53	502.77	0.2357
1039	3	Biased	505.26	505.62	0.3584
1053	100	Biased	501.09	503.81	2.7105
1056	0	Correlation	502.42	502.56	0.1485
1072	10	Biased	505.3	505.08	-0.2203
1095	50	Unbiased	505.63	507.15	1.5179
1099	0	Correlation	508.95	509.04	0.0958
1113	3	Biased	494.95	494.86	-0.0923
1142	10	Unbiased	504.32	504.86	0.5474
1154	10	Biased	495.59	495.87	0.2793
1215	50	Unbiased	500.77	500.25	-0.5187
1222	100	Biased	503.29	500.77	-2.5249
1229	50	Unbiased	499.69	500.47	0.775
1255	3	Unbiased	494.78	494.9	0.1139
1331	30	Unbiased	500.67	500.14	-0.5295
1359	30	Biased	503.51	505.06	1.5501
1375	30	Unbiased	499.92	499.92	0.0032
1398	30	Biased	503.39	503.73	0.3465
1411	50	Biased	500.54	502.48	1.9379
1465	10	Unbiased	498.17	498.97	0.8011
1474	50	Biased	500.77	500.35	-0.4286
1504	50	Biased	500.64	503.06	2.418
1540	100	Biased	506.06	505.88	-0.1746
1554	3	Unbiased	497.47	498.14	0.6706
1662	30	Biased	504.88	506.28	1.4083
1679	10	Biased	500.46	501.17	0.7039
1697	10	Biased	496.7	496.16	-0.5428
1703	30	Biased	500.36	501.29	0.9372
1704	10	Unbiased	496.32	495.81	-0.5175
1736	30	Biased	505.98	506.69	0.7015
1737	0	Correlation	501.3	501.43	0.134
1748	0	Correlation	501.3	501.31	0.0057

Test Statistics (kHz)

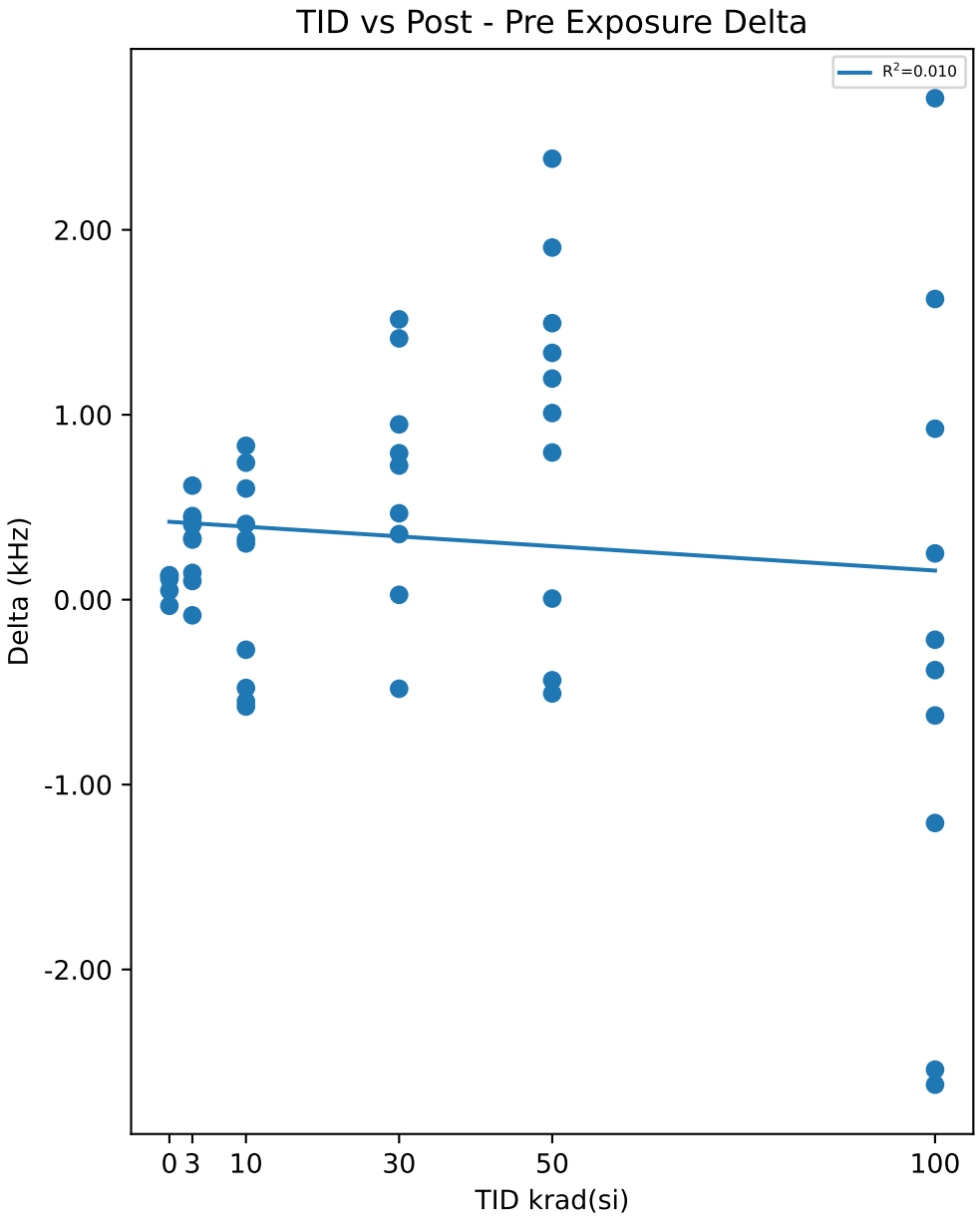
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	501.3	503.32	508.95	3.2071	501.31	503.4	509.04	3.2158	0.0057	0.08254	0.1485	0.063202
3	494.78	500.42	505.55	3.8699	494.86	500.74	505.84	3.9289	-0.0923	0.3241	0.6706	0.22738
10	495.59	500.24	505.3	3.8149	495.81	500.36	505.55	4.0205	-0.5428	0.11684	0.8011	0.52504
30	499.92	502.63	505.98	2.3672	499.92	503.27	506.69	2.7689	-0.5295	0.63623	1.5501	0.65333
50	496.36	501.19	512.58	4.7776	496.41	502.12	513.81	5.0724	-0.5187	0.93297	2.418	0.97998
100	495.81	502.05	507.68	3.875	493.26	501.86	507.07	4.2455	-2.5498	-0.19036	2.7105	1.6847

Device Test: 20.57 LEVEL|FREQ/RT/14/14/0/1000/5/500kHz//@FSW_EXT_RT_C

TID vs Result Stats



TID vs Post - Pre Exposure Delta



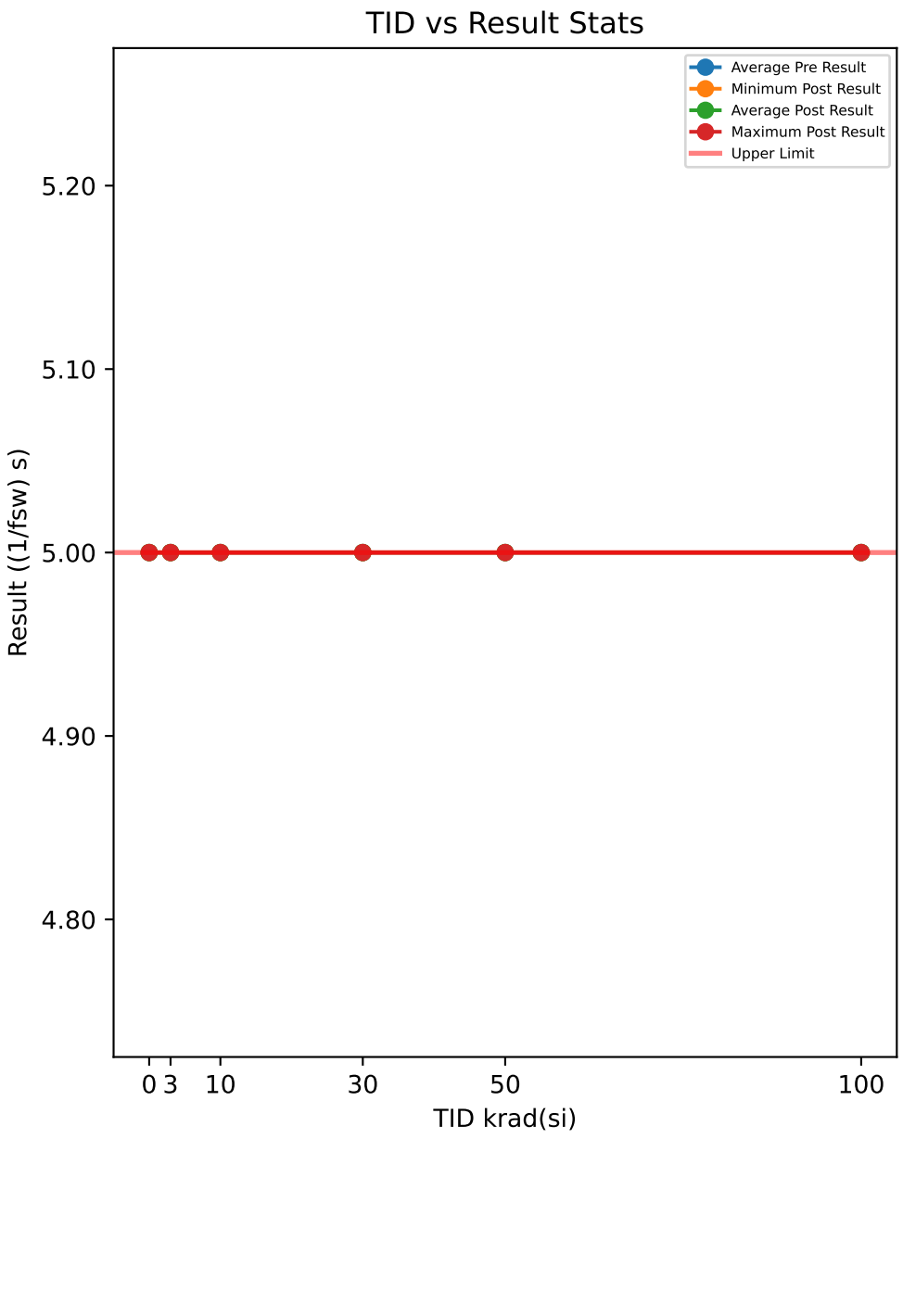
Test Results (Lower Limit = 450.0, Upper Limit = 550.0 (kHz))

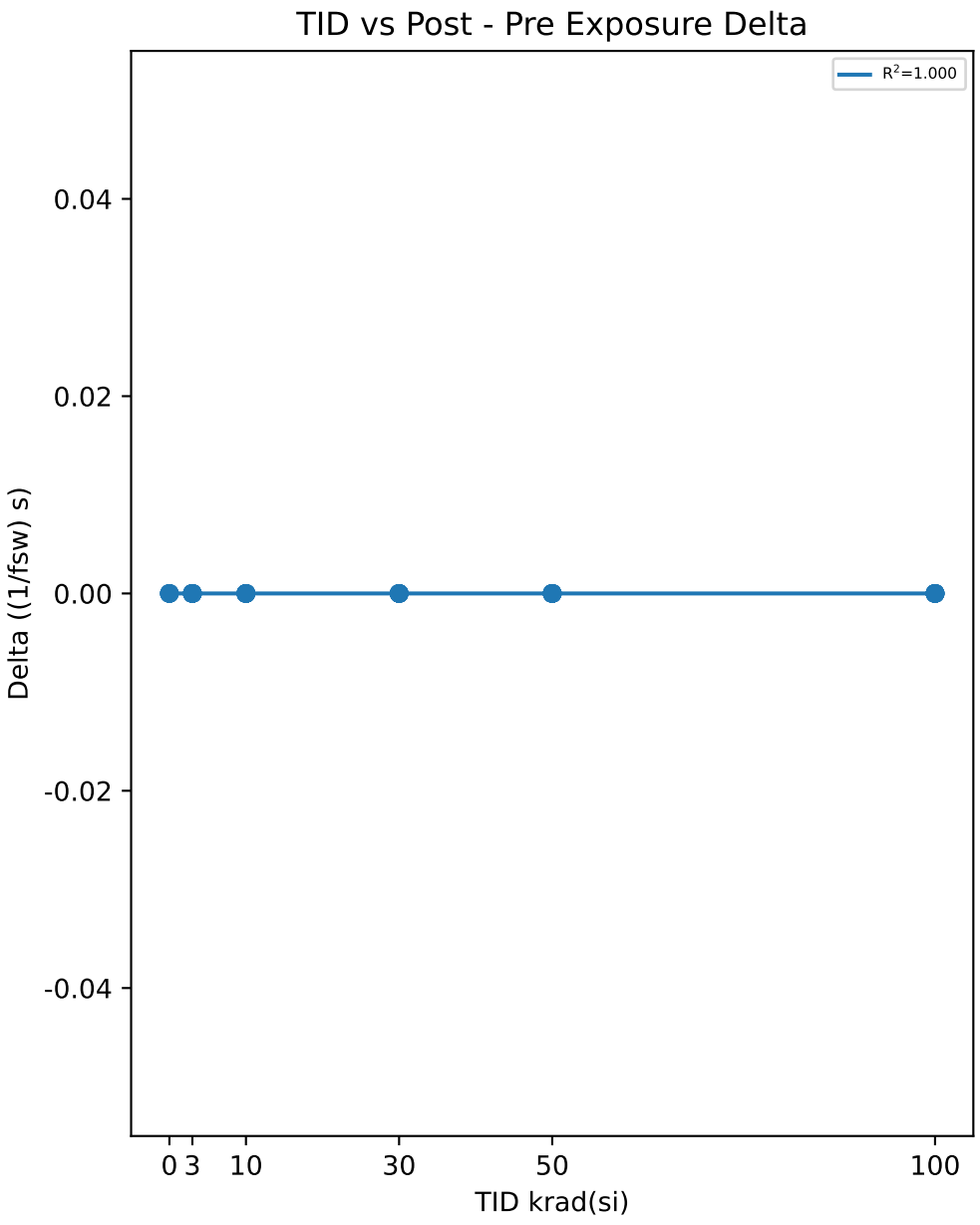
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	498.36	499.69	1.3346
411	100	Unbiased	495.74	493.2	-2.5415
444	30	Unbiased	504.73	505.52	0.792
454	10	Unbiased	497.84	497.37	-0.4773
491	3	Unbiased	502.86	503.27	0.4145
500	100	Unbiased	506.64	506.89	0.2501
534	100	Biased	501.41	500.2	-1.208
558	0	Correlation	502.6	502.57	-0.0331
563	100	Biased	500.68	500.3	-0.3809
570	3	Unbiased	499.79	500.24	0.4522
614	10	Unbiased	505.11	505.52	0.4094
675	3	Biased	505.48	505.81	0.3249
713	100	Unbiased	507.58	506.95	-0.6263
744	50	Biased	496.54	497.55	1.0093
799	50	Biased	496.35	496.36	0.0059
842	30	Unbiased	500.12	500.59	0.4671
889	3	Unbiased	503.2	503.3	0.1007
901	3	Biased	499.75	500.08	0.3327
930	50	Unbiased	512.58	513.77	1.1956
968	100	Unbiased	497.79	498.72	0.9245
976	100	Unbiased	499.86	501.48	1.6261
981	3	Biased	500.41	500.86	0.4437
1003	10	Biased	502.43	502.75	0.3263
1039	3	Biased	505.2	505.6	0.4044
1053	100	Biased	501.01	503.73	2.7117
1056	0	Correlation	502.37	502.48	0.1122
1072	10	Biased	505.32	505.04	-0.2708
1095	50	Unbiased	505.64	507.13	1.4952
1099	0	Correlation	508.88	509.02	0.1322
1113	3	Biased	494.92	494.84	-0.0847
1142	10	Unbiased	504.19	504.79	0.6011
1154	10	Biased	495.53	495.84	0.3039
1215	50	Unbiased	500.72	500.21	-0.5073
1222	100	Biased	503.27	500.64	-2.623
1229	50	Unbiased	499.62	500.42	0.7959
1255	3	Unbiased	494.75	494.89	0.1448
1331	30	Unbiased	500.61	500.13	-0.4818
1359	30	Biased	503.44	504.95	1.5159
1375	30	Unbiased	499.9	499.93	0.0261
1398	30	Biased	503.32	503.68	0.3546
1411	50	Biased	500.53	502.44	1.9043
1465	10	Unbiased	498.12	498.95	0.8322
1474	50	Biased	500.7	500.27	-0.4358
1504	50	Biased	500.56	502.94	2.3848
1540	100	Biased	506.06	505.85	-0.2167
1554	3	Unbiased	497.44	498.05	0.617
1662	30	Biased	504.84	506.25	1.413
1679	10	Biased	500.44	501.18	0.7408
1697	10	Biased	496.63	496.05	-0.5779
1703	30	Biased	500.34	501.29	0.9479
1704	10	Unbiased	496.32	495.77	-0.5499
1736	30	Biased	505.92	506.64	0.7252
1737	0	Correlation	501.28	501.41	0.1292
1748	0	Correlation	501.2	501.25	0.049

Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	501.2	503.27	508.88	3.202	501.25	503.34	509.02	3.2266	-0.0331	0.0779	0.1322	0.070557
3	494.75	500.38	505.48	3.8625	494.84	500.7	505.81	3.9331	-0.0847	0.31502	0.617	0.20536
10	495.53	500.19	505.32	3.8109	495.77	500.33	505.52	4.0229	-0.5779	0.13378	0.8322	0.55052
30	499.9	502.58	505.92	2.3513	499.93	503.22	506.64	2.7484	-0.4818	0.64	1.5159	0.63606
50	496.35	501.16	512.58	4.7868	496.36	502.08	513.77	5.0729	-0.5073	0.91825	2.3848	0.96767
100	495.74	502.01	507.58	3.8767	493.2	501.8	506.95	4.2453	-2.623	-0.2084	2.7117	1.6952

Device Test: 20.72 FREQ|DETECTION/SYNC/12/12/0/0/5/100kHz//@T_SYNC_DET





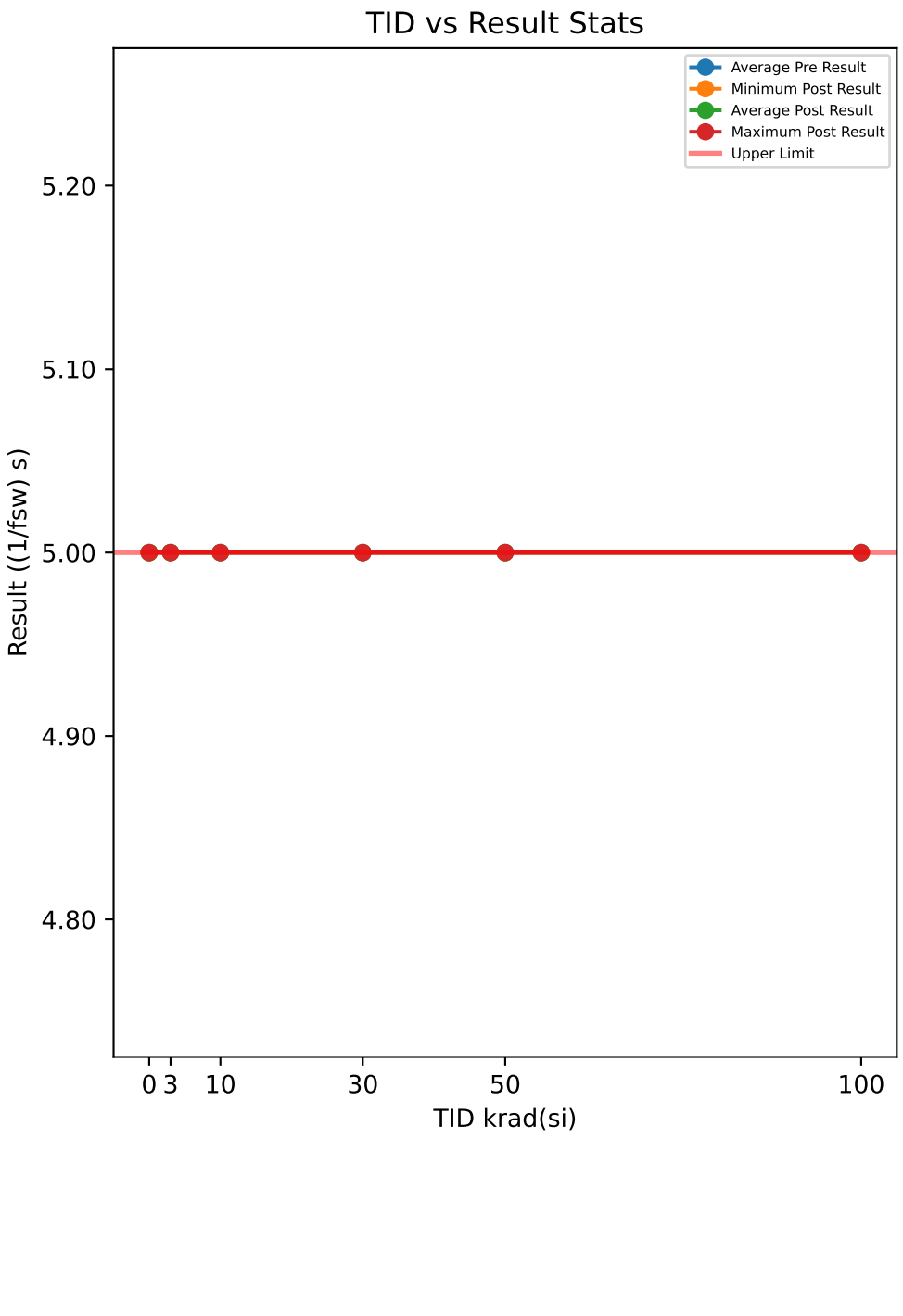
Test Results (Upper Limit = 5.0 ((1/fsw) s))

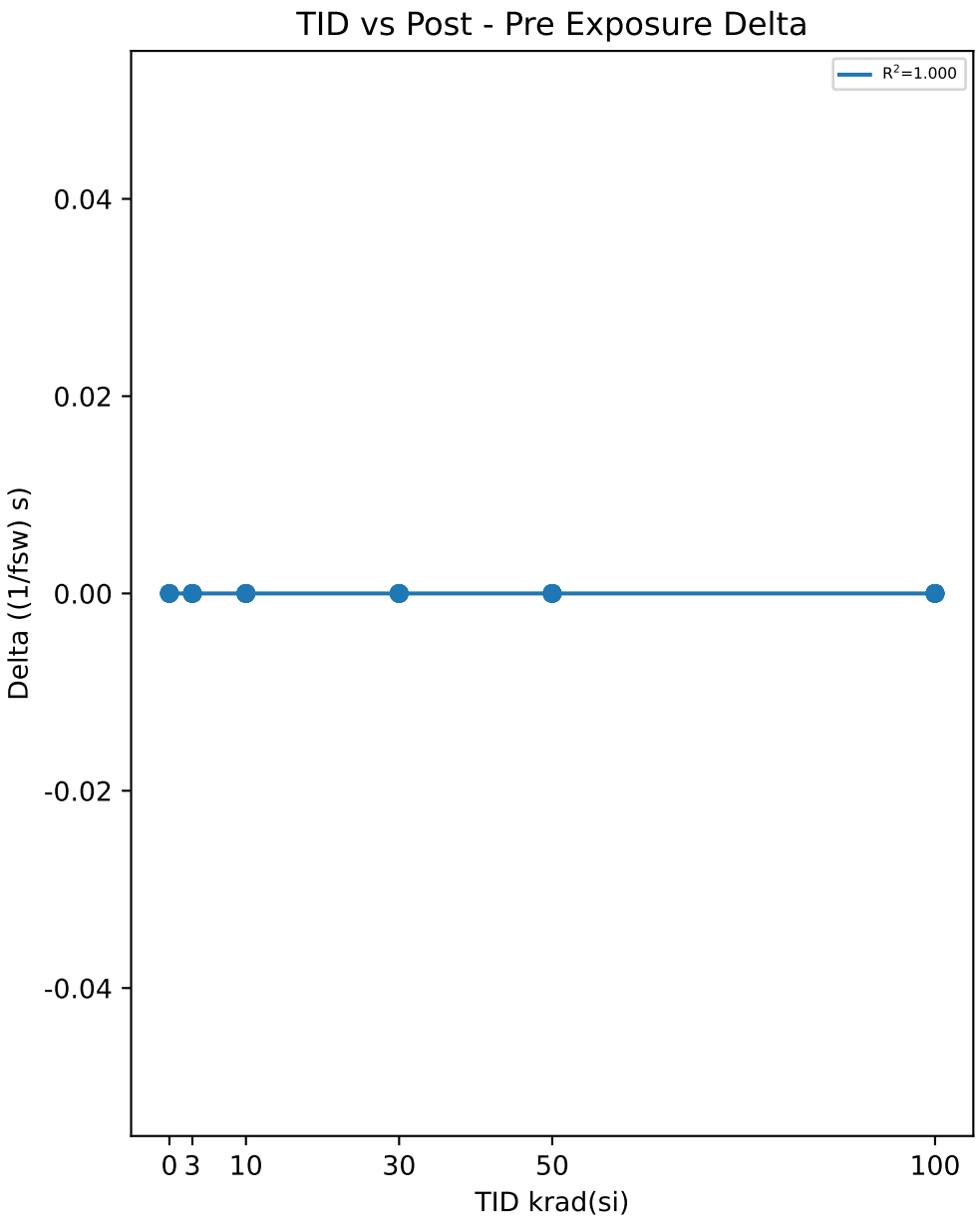
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	5	5	0
411	100	Unbiased	5	5	0
444	30	Unbiased	5	5	0
454	10	Unbiased	5	5	0
491	3	Unbiased	5	5	0
500	100	Unbiased	5	5	0
534	100	Biased	5	5	0
558	0	Correlation	5	5	0
563	100	Biased	5	5	0
570	3	Unbiased	5	5	0
614	10	Unbiased	5	5	0
675	3	Biased	5	5	0
713	100	Unbiased	5	5	0
744	50	Biased	5	5	0
799	50	Biased	5	5	0
842	30	Unbiased	5	5	0
889	3	Unbiased	5	5	0
901	3	Biased	5	5	0
930	50	Unbiased	5	5	0
968	100	Unbiased	5	5	0
976	100	Unbiased	5	5	0
981	3	Biased	5	5	0
1003	10	Biased	5	5	0
1039	3	Biased	5	5	0
1053	100	Biased	5	5	0
1056	0	Correlation	5	5	0
1072	10	Biased	5	5	0
1095	50	Unbiased	5	5	0
1099	0	Correlation	5	5	0
1113	3	Biased	5	5	0
1142	10	Unbiased	5	5	0
1154	10	Biased	5	5	0
1215	50	Unbiased	5	5	0
1222	100	Biased	5	5	0
1229	50	Unbiased	5	5	0
1255	3	Unbiased	5	5	0
1331	30	Unbiased	5	5	0
1359	30	Biased	5	5	0
1375	30	Unbiased	5	5	0
1398	30	Biased	5	5	0
1411	50	Biased	5	5	0
1465	10	Unbiased	5	5	0
1474	50	Biased	5	5	0
1504	50	Biased	5	5	0
1540	100	Biased	5	5	0
1554	3	Unbiased	5	5	0
1662	30	Biased	5	5	0
1679	10	Biased	5	5	0
1697	10	Biased	5	5	0
1703	30	Biased	5	5	0
1704	10	Unbiased	5	5	0
1736	30	Biased	5	5	0
1737	0	Correlation	5	5	0
1748	0	Correlation	5	5	0

Test Statistics ((1/fsw) s)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	5	5	5	0	5	5	5	0	0	0	0	0
3	5	5	5	0	5	5	5	0	0	0	0	0
10	5	5	5	0	5	5	5	0	0	0	0	0
30	5	5	5	0	5	5	5	0	0	0	0	0
50	5	5	5	0	5	5	5	0	0	0	0	0
100	5	5	5	0	5	5	5	0	0	0	0	0

Device Test: 20.74 FREQ|DETECTION/SYNC/14/14/0/0/5/100kHz//@T_SYNC_DET





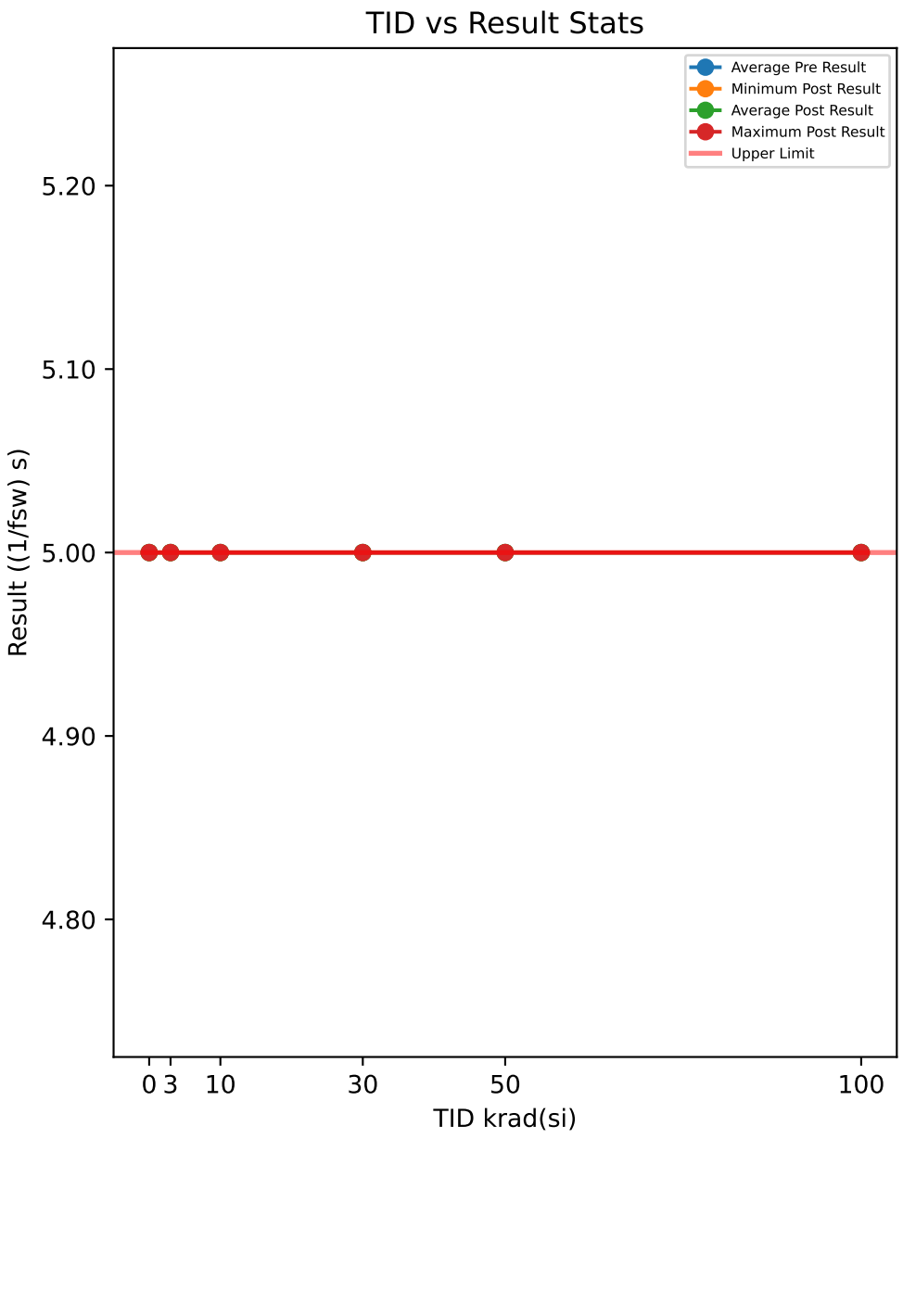
Test Results (Upper Limit = 5.0 ((1/fsw) s))

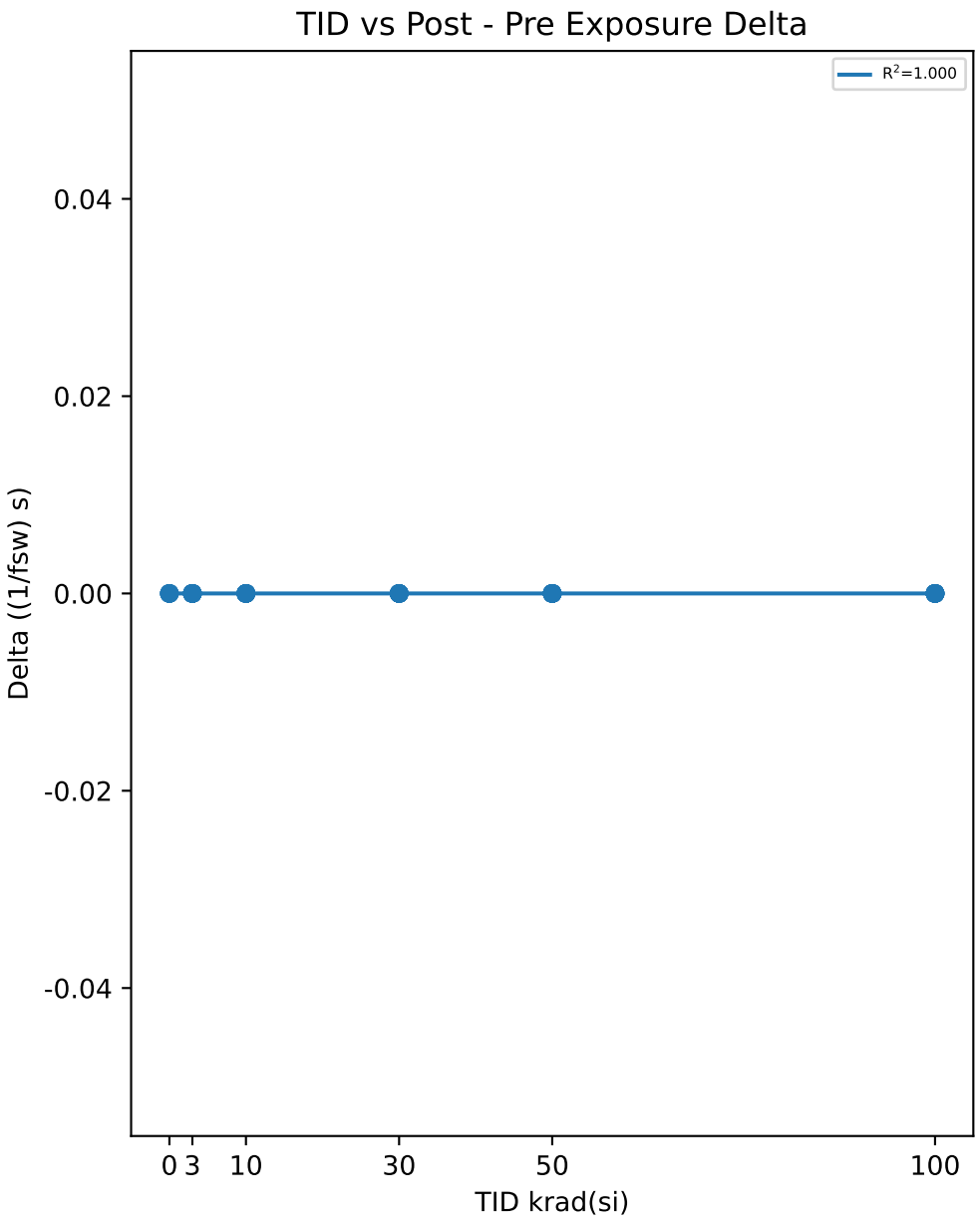
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	5	5	0
411	100	Unbiased	5	5	0
444	30	Unbiased	5	5	0
454	10	Unbiased	5	5	0
491	3	Unbiased	5	5	0
500	100	Unbiased	5	5	0
534	100	Biased	5	5	0
558	0	Correlation	5	5	0
563	100	Biased	5	5	0
570	3	Unbiased	5	5	0
614	10	Unbiased	5	5	0
675	3	Biased	5	5	0
713	100	Unbiased	5	5	0
744	50	Biased	5	5	0
799	50	Biased	5	5	0
842	30	Unbiased	5	5	0
889	3	Unbiased	5	5	0
901	3	Biased	5	5	0
930	50	Unbiased	5	5	0
968	100	Unbiased	5	5	0
976	100	Unbiased	5	5	0
981	3	Biased	5	5	0
1003	10	Biased	5	5	0
1039	3	Biased	5	5	0
1053	100	Biased	5	5	0
1056	0	Correlation	5	5	0
1072	10	Biased	5	5	0
1095	50	Unbiased	5	5	0
1099	0	Correlation	5	5	0
1113	3	Biased	5	5	0
1142	10	Unbiased	5	5	0
1154	10	Biased	5	5	0
1215	50	Unbiased	5	5	0
1222	100	Biased	5	5	0
1229	50	Unbiased	5	5	0
1255	3	Unbiased	5	5	0
1331	30	Unbiased	5	5	0
1359	30	Biased	5	5	0
1375	30	Unbiased	5	5	0
1398	30	Biased	5	5	0
1411	50	Biased	5	5	0
1465	10	Unbiased	5	5	0
1474	50	Biased	5	5	0
1504	50	Biased	5	5	0
1540	100	Biased	5	5	0
1554	3	Unbiased	5	5	0
1662	30	Biased	5	5	0
1679	10	Biased	5	5	0
1697	10	Biased	5	5	0
1703	30	Biased	5	5	0
1704	10	Unbiased	5	5	0
1736	30	Biased	5	5	0
1737	0	Correlation	5	5	0
1748	0	Correlation	5	5	0

Test Statistics ((1/fsw) s)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	5	5	5	0	5	5	5	0	0	0	0	0
3	5	5	5	0	5	5	5	0	0	0	0	0
10	5	5	5	0	5	5	5	0	0	0	0	0
30	5	5	5	0	5	5	5	0	0	0	0	0
50	5	5	5	0	5	5	5	0	0	0	0	0
100	5	5	5	0	5	5	5	0	0	0	0	0

Device Test: 20.76 FREQ|DETECTION/SYNC/12/12/0/0/5/200kHz//@T_SYNC_DET





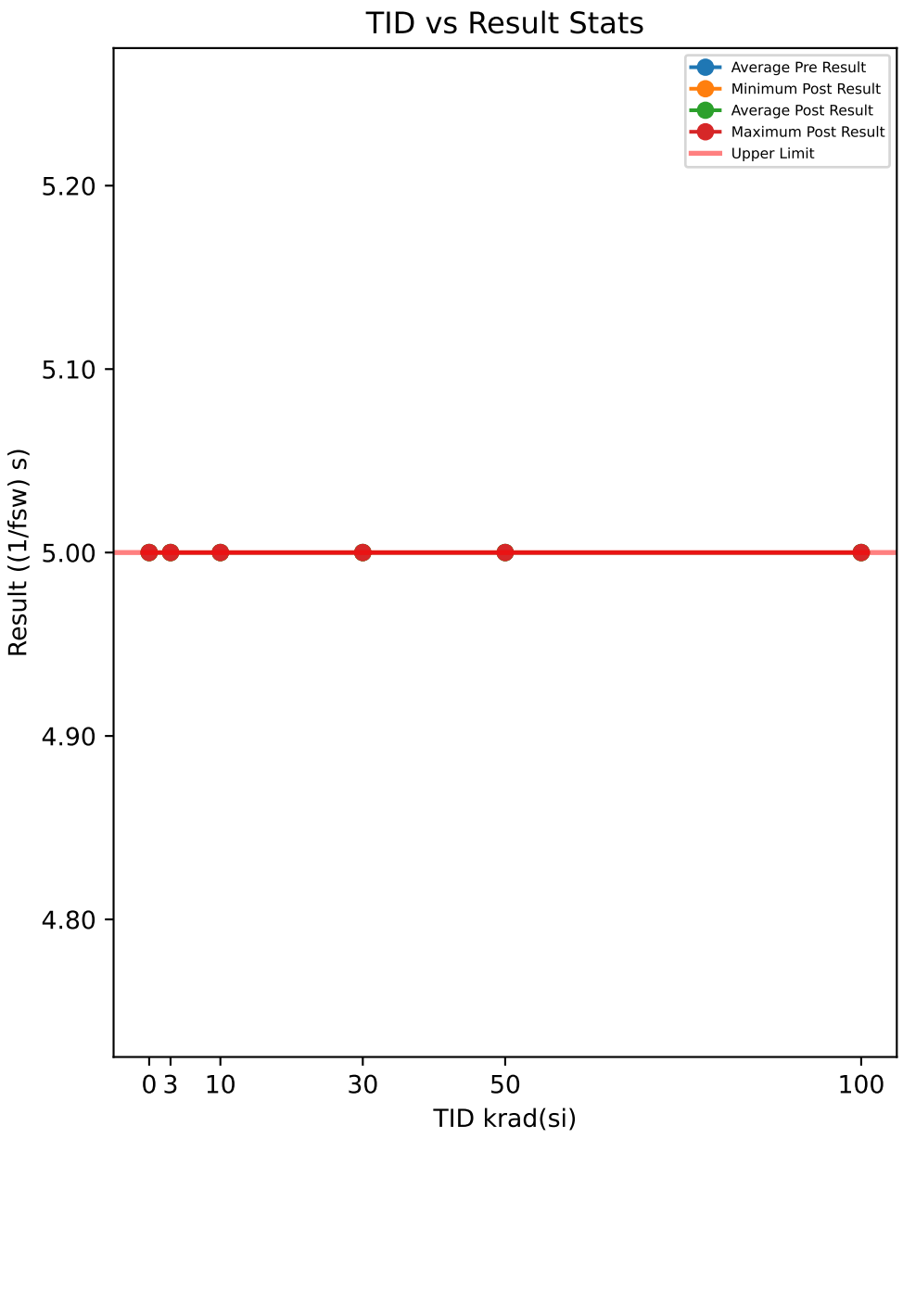
Test Results (Upper Limit = 5.0 ((1/fsw) s))

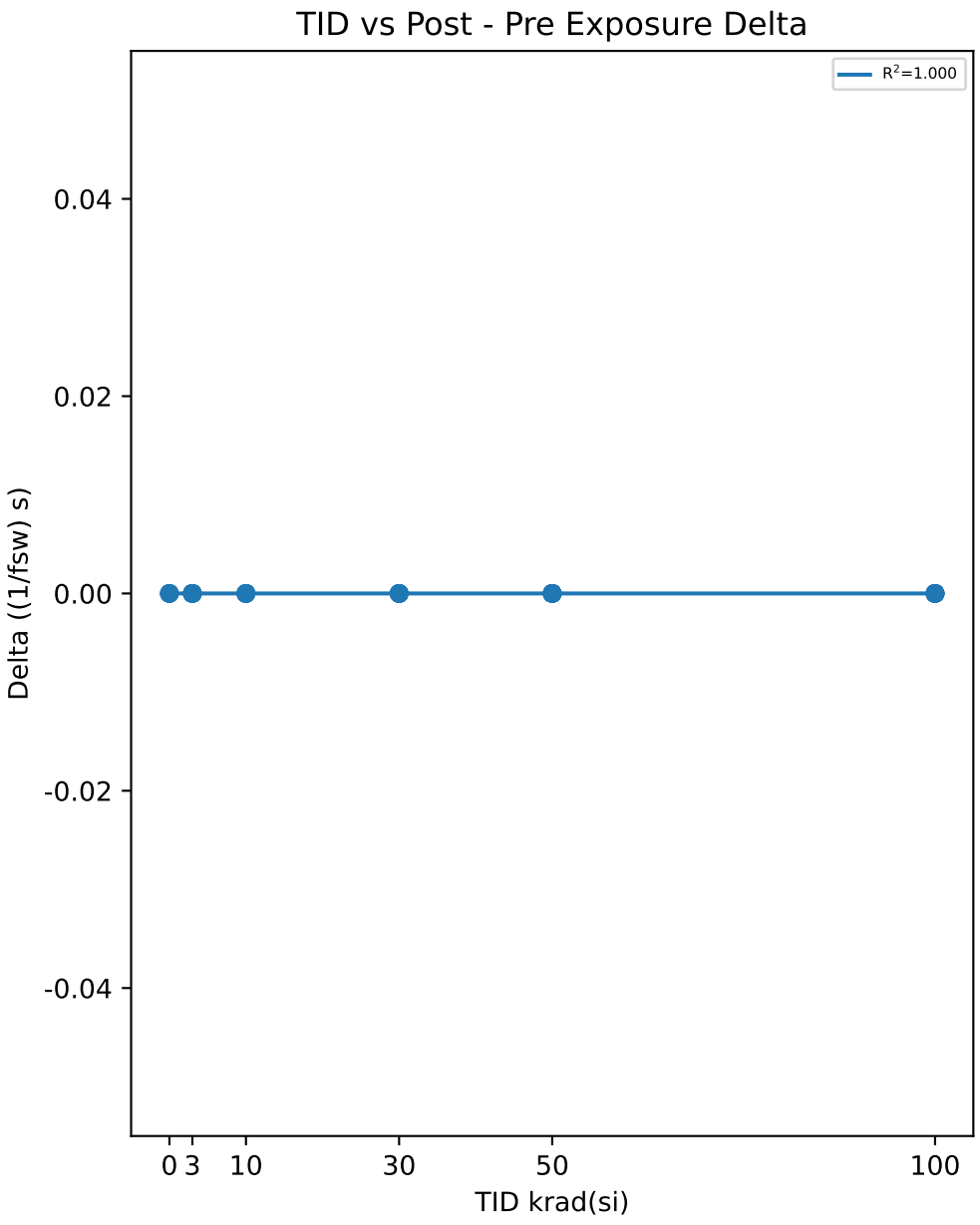
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	5	5	0
411	100	Unbiased	5	5	0
444	30	Unbiased	5	5	0
454	10	Unbiased	5	5	0
491	3	Unbiased	5	5	0
500	100	Unbiased	5	5	0
534	100	Biased	5	5	0
558	0	Correlation	5	5	0
563	100	Biased	5	5	0
570	3	Unbiased	5	5	0
614	10	Unbiased	5	5	0
675	3	Biased	5	5	0
713	100	Unbiased	5	5	0
744	50	Biased	5	5	0
799	50	Biased	5	5	0
842	30	Unbiased	5	5	0
889	3	Unbiased	5	5	0
901	3	Biased	5	5	0
930	50	Unbiased	5	5	0
968	100	Unbiased	5	5	0
976	100	Unbiased	5	5	0
981	3	Biased	5	5	0
1003	10	Biased	5	5	0
1039	3	Biased	5	5	0
1053	100	Biased	5	5	0
1056	0	Correlation	5	5	0
1072	10	Biased	5	5	0
1095	50	Unbiased	5	5	0
1099	0	Correlation	5	5	0
1113	3	Biased	5	5	0
1142	10	Unbiased	5	5	0
1154	10	Biased	5	5	0
1215	50	Unbiased	5	5	0
1222	100	Biased	5	5	0
1229	50	Unbiased	5	5	0
1255	3	Unbiased	5	5	0
1331	30	Unbiased	5	5	0
1359	30	Biased	5	5	0
1375	30	Unbiased	5	5	0
1398	30	Biased	5	5	0
1411	50	Biased	5	5	0
1465	10	Unbiased	5	5	0
1474	50	Biased	5	5	0
1504	50	Biased	5	5	0
1540	100	Biased	5	5	0
1554	3	Unbiased	5	5	0
1662	30	Biased	5	5	0
1679	10	Biased	5	5	0
1697	10	Biased	5	5	0
1703	30	Biased	5	5	0
1704	10	Unbiased	5	5	0
1736	30	Biased	5	5	0
1737	0	Correlation	5	5	0
1748	0	Correlation	5	5	0

Test Statistics ((1/fsw) s)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	5	5	5	0	5	5	5	0	0	0	0	0
3	5	5	5	0	5	5	5	0	0	0	0	0
10	5	5	5	0	5	5	5	0	0	0	0	0
30	5	5	5	0	5	5	5	0	0	0	0	0
50	5	5	5	0	5	5	5	0	0	0	0	0
100	5	5	5	0	5	5	5	0	0	0	0	0

Device Test: 20.78 FREQ|DETECTION/SYNC/14/14/0/0/5/200kHz//@T_SYNC_DET





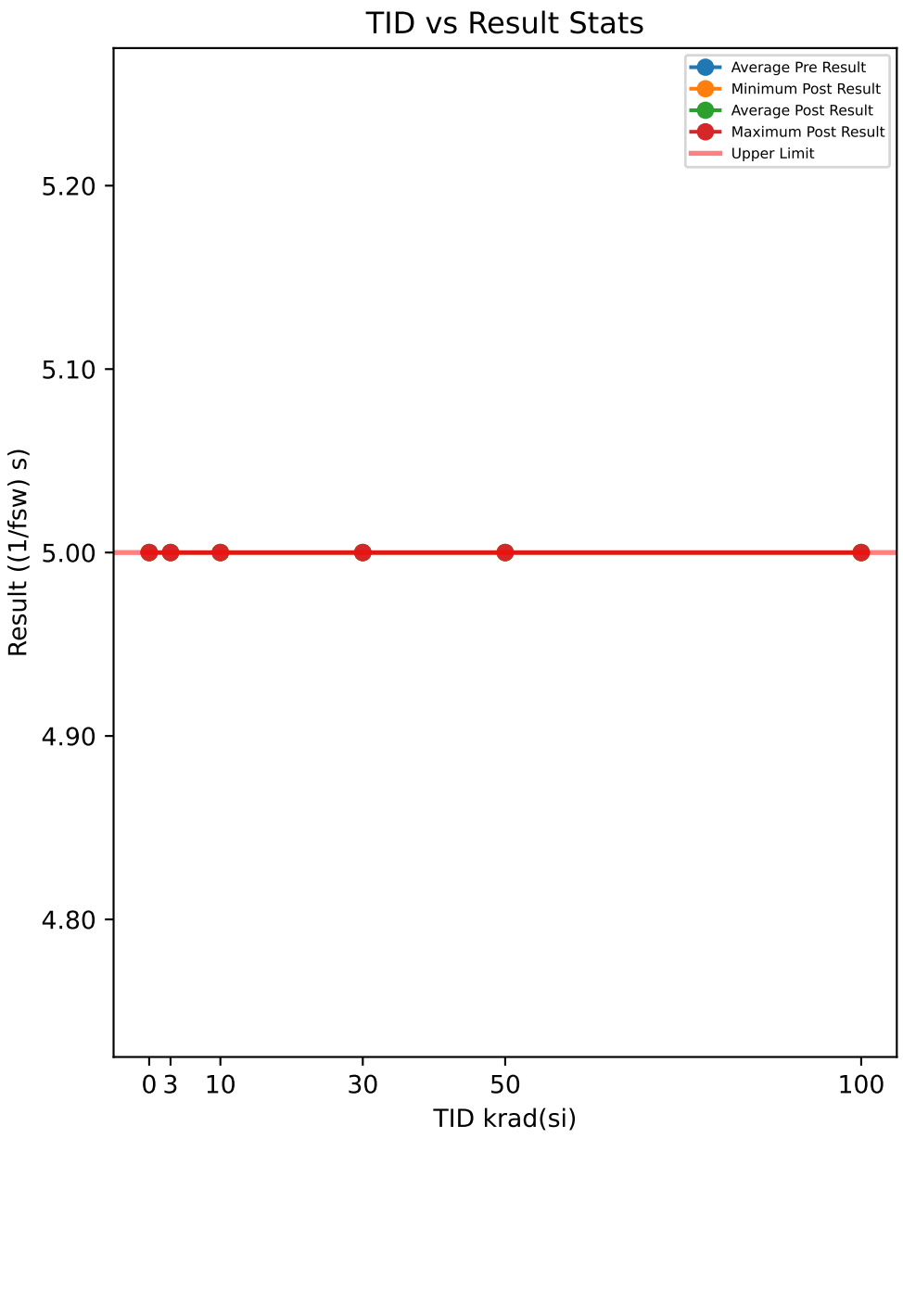
Test Results (Upper Limit = 5.0 ((1/fsw) s))

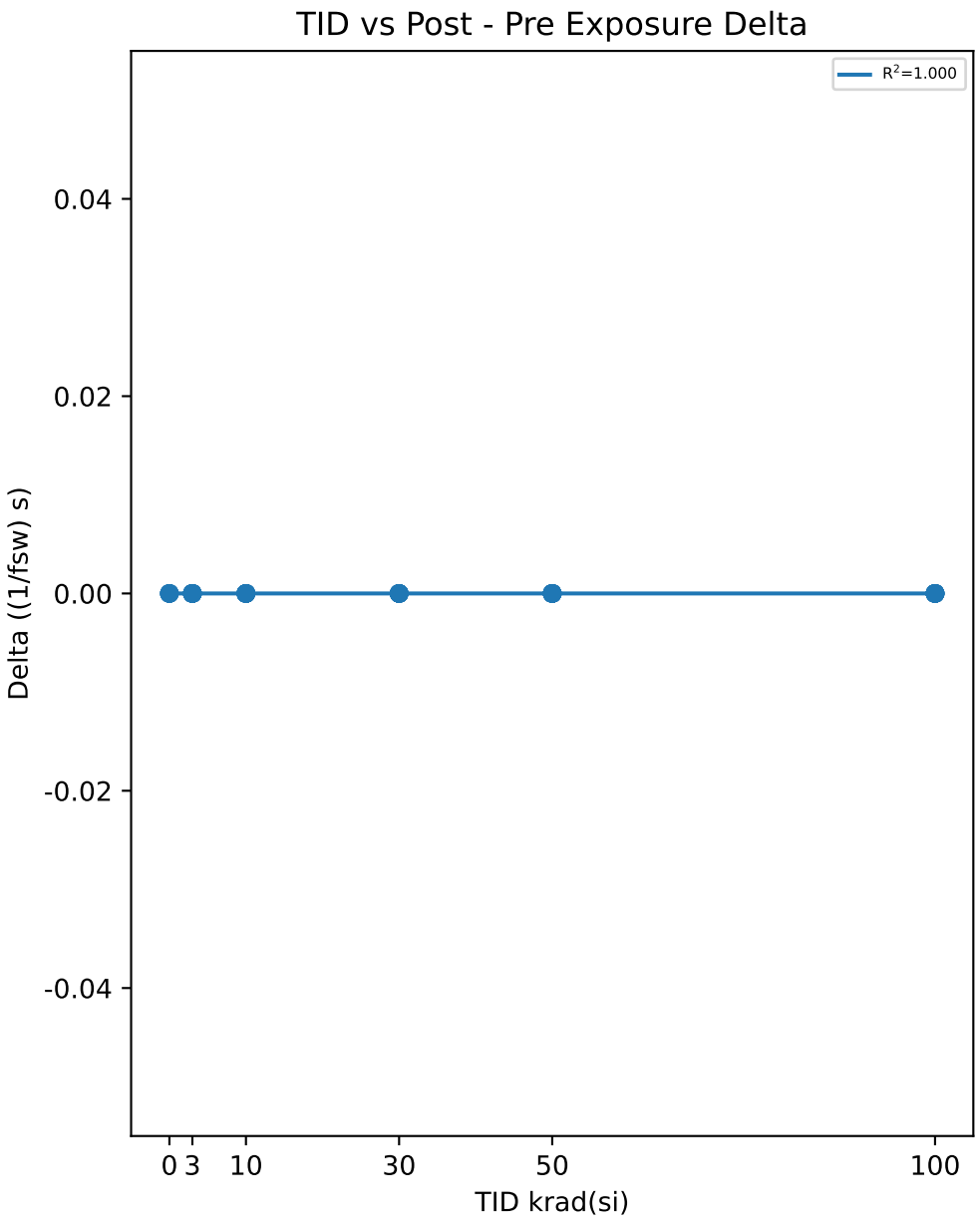
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	5	5	0
411	100	Unbiased	5	5	0
444	30	Unbiased	5	5	0
454	10	Unbiased	5	5	0
491	3	Unbiased	5	5	0
500	100	Unbiased	5	5	0
534	100	Biased	5	5	0
558	0	Correlation	5	5	0
563	100	Biased	5	5	0
570	3	Unbiased	5	5	0
614	10	Unbiased	5	5	0
675	3	Biased	5	5	0
713	100	Unbiased	5	5	0
744	50	Biased	5	5	0
799	50	Biased	5	5	0
842	30	Unbiased	5	5	0
889	3	Unbiased	5	5	0
901	3	Biased	5	5	0
930	50	Unbiased	5	5	0
968	100	Unbiased	5	5	0
976	100	Unbiased	5	5	0
981	3	Biased	5	5	0
1003	10	Biased	5	5	0
1039	3	Biased	5	5	0
1053	100	Biased	5	5	0
1056	0	Correlation	5	5	0
1072	10	Biased	5	5	0
1095	50	Unbiased	5	5	0
1099	0	Correlation	5	5	0
1113	3	Biased	5	5	0
1142	10	Unbiased	5	5	0
1154	10	Biased	5	5	0
1215	50	Unbiased	5	5	0
1222	100	Biased	5	5	0
1229	50	Unbiased	5	5	0
1255	3	Unbiased	5	5	0
1331	30	Unbiased	5	5	0
1359	30	Biased	5	5	0
1375	30	Unbiased	5	5	0
1398	30	Biased	5	5	0
1411	50	Biased	5	5	0
1465	10	Unbiased	5	5	0
1474	50	Biased	5	5	0
1504	50	Biased	5	5	0
1540	100	Biased	5	5	0
1554	3	Unbiased	5	5	0
1662	30	Biased	5	5	0
1679	10	Biased	5	5	0
1697	10	Biased	5	5	0
1703	30	Biased	5	5	0
1704	10	Unbiased	5	5	0
1736	30	Biased	5	5	0
1737	0	Correlation	5	5	0
1748	0	Correlation	5	5	0

Test Statistics ((1/fsw) s)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	5	5	5	0	5	5	5	0	0	0	0	0
3	5	5	5	0	5	5	5	0	0	0	0	0
10	5	5	5	0	5	5	5	0	0	0	0	0
30	5	5	5	0	5	5	5	0	0	0	0	0
50	5	5	5	0	5	5	5	0	0	0	0	0
100	5	5	5	0	5	5	5	0	0	0	0	0

Device Test: 20.80 FREQ|DETECTION/SYNC/12/12/0/0/5/500kHz//@T_SYNC_DET





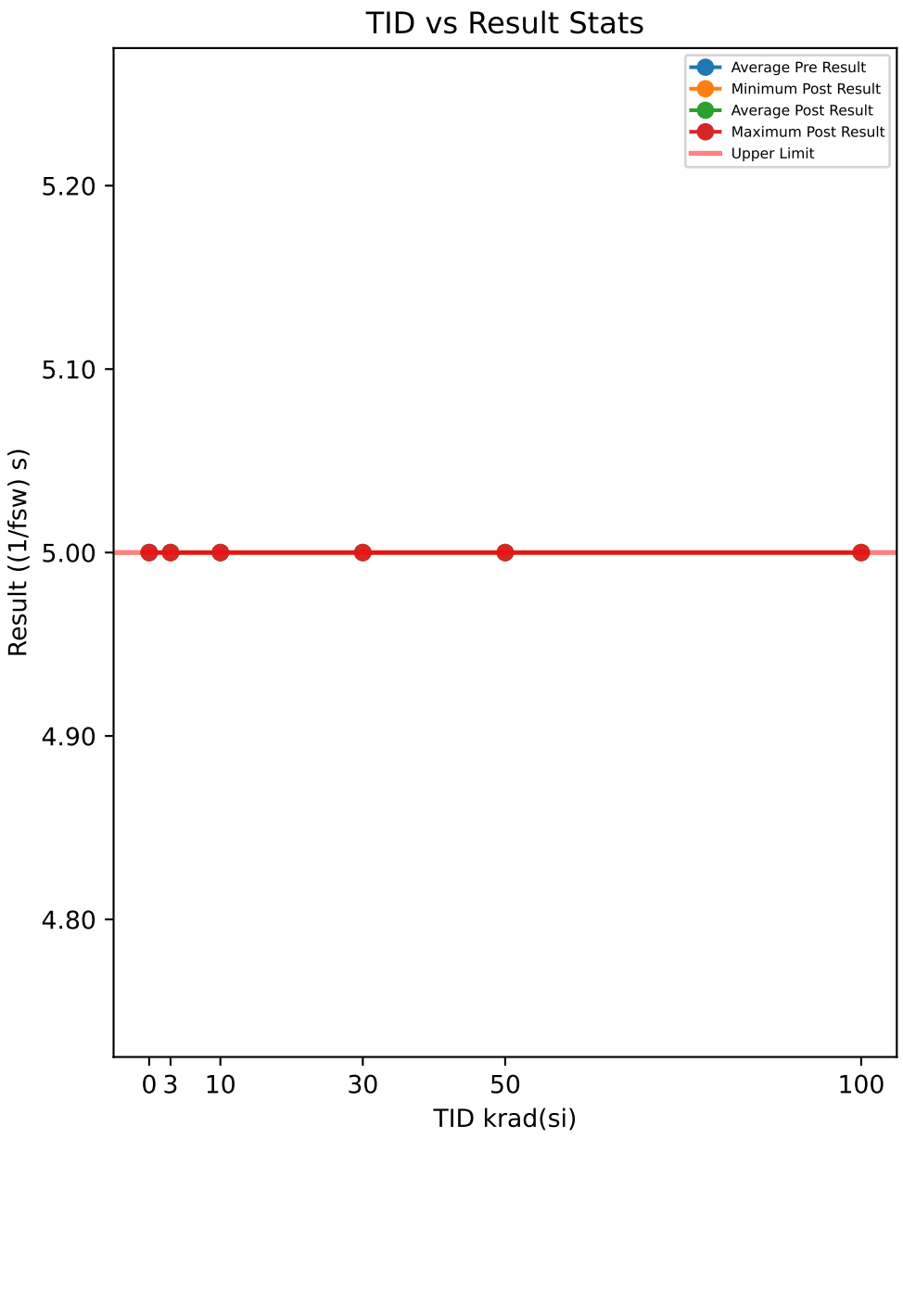
Test Results (Upper Limit = 5.0 ((1/fsw) s))

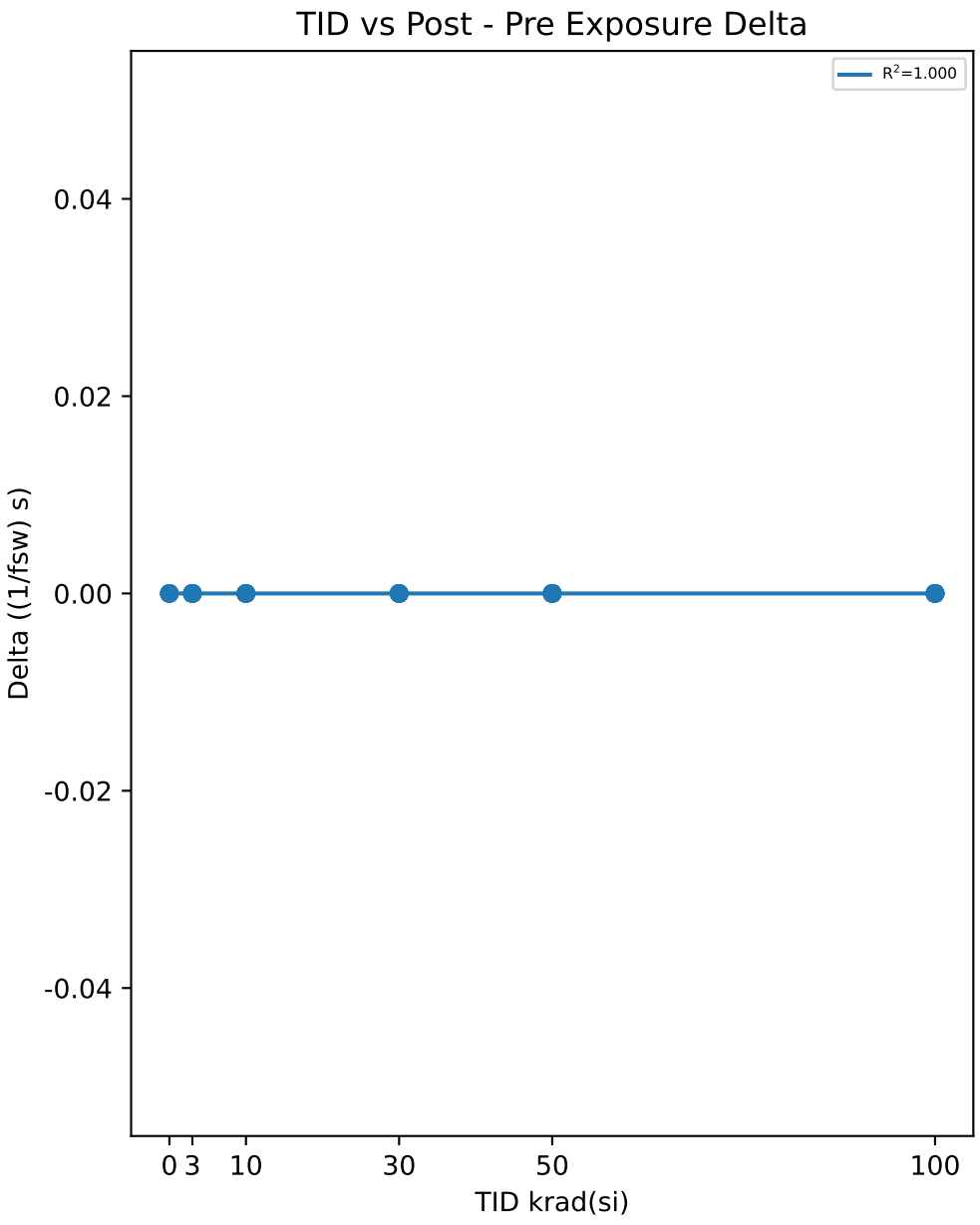
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	5	5	0
411	100	Unbiased	5	5	0
444	30	Unbiased	5	5	0
454	10	Unbiased	5	5	0
491	3	Unbiased	5	5	0
500	100	Unbiased	5	5	0
534	100	Biased	5	5	0
558	0	Correlation	5	5	0
563	100	Biased	5	5	0
570	3	Unbiased	5	5	0
614	10	Unbiased	5	5	0
675	3	Biased	5	5	0
713	100	Unbiased	5	5	0
744	50	Biased	5	5	0
799	50	Biased	5	5	0
842	30	Unbiased	5	5	0
889	3	Unbiased	5	5	0
901	3	Biased	5	5	0
930	50	Unbiased	5	5	0
968	100	Unbiased	5	5	0
976	100	Unbiased	5	5	0
981	3	Biased	5	5	0
1003	10	Biased	5	5	0
1039	3	Biased	5	5	0
1053	100	Biased	5	5	0
1056	0	Correlation	5	5	0
1072	10	Biased	5	5	0
1095	50	Unbiased	5	5	0
1099	0	Correlation	5	5	0
1113	3	Biased	5	5	0
1142	10	Unbiased	5	5	0
1154	10	Biased	5	5	0
1215	50	Unbiased	5	5	0
1222	100	Biased	5	5	0
1229	50	Unbiased	5	5	0
1255	3	Unbiased	5	5	0
1331	30	Unbiased	5	5	0
1359	30	Biased	5	5	0
1375	30	Unbiased	5	5	0
1398	30	Biased	5	5	0
1411	50	Biased	5	5	0
1465	10	Unbiased	5	5	0
1474	50	Biased	5	5	0
1504	50	Biased	5	5	0
1540	100	Biased	5	5	0
1554	3	Unbiased	5	5	0
1662	30	Biased	5	5	0
1679	10	Biased	5	5	0
1697	10	Biased	5	5	0
1703	30	Biased	5	5	0
1704	10	Unbiased	5	5	0
1736	30	Biased	5	5	0
1737	0	Correlation	5	5	0
1748	0	Correlation	5	5	0

Test Statistics ((1/fsw) s)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	5	5	5	0	5	5	5	0	0	0	0	0
3	5	5	5	0	5	5	5	0	0	0	0	0
10	5	5	5	0	5	5	5	0	0	0	0	0
30	5	5	5	0	5	5	5	0	0	0	0	0
50	5	5	5	0	5	5	5	0	0	0	0	0
100	5	5	5	0	5	5	5	0	0	0	0	0

Device Test: 20.82 FREQ|DETECTION/SYNC/14/14/0/0/5/500kHz//@T_SYNC_DET





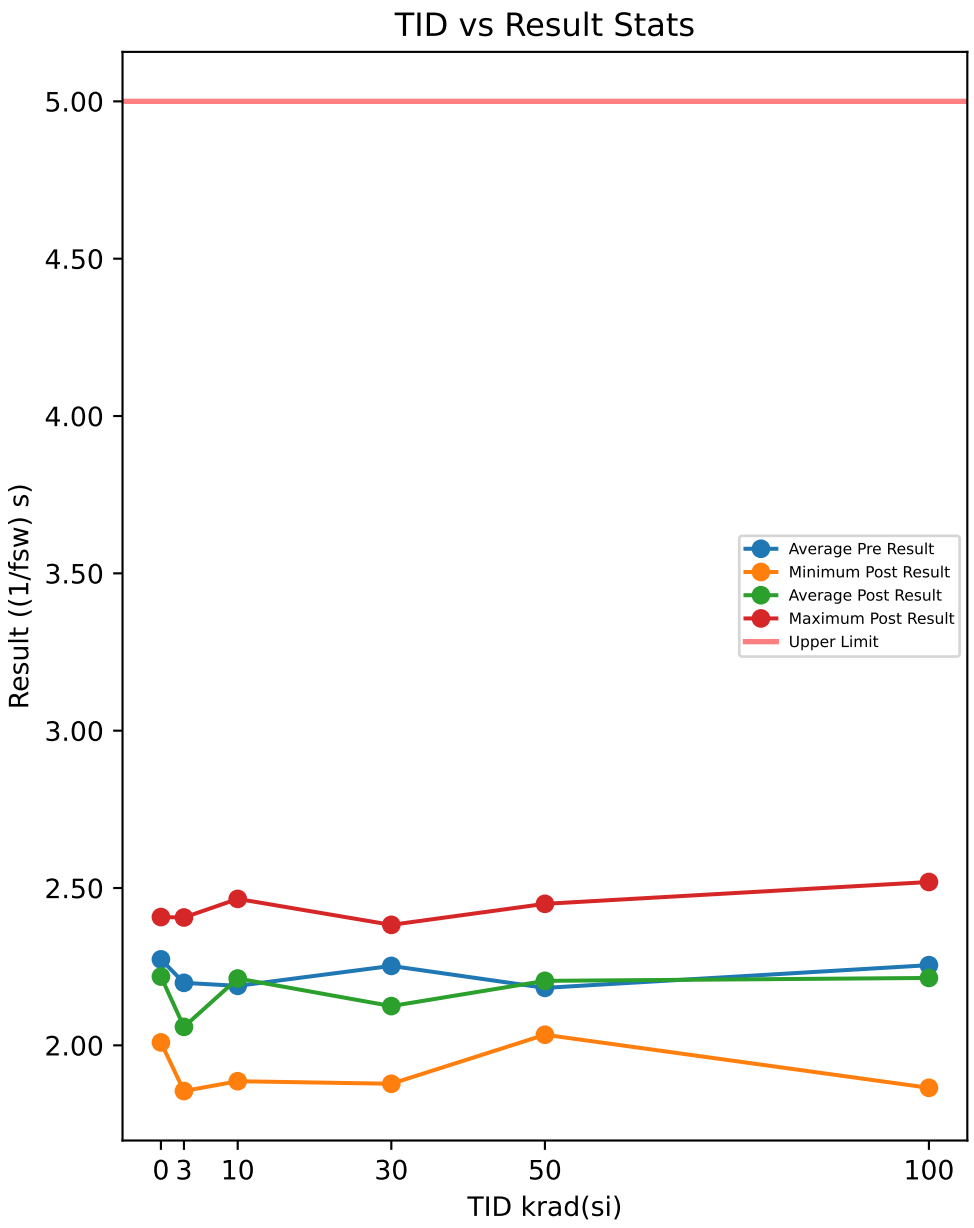
Test Results (Upper Limit = 5.0 ((1/fsw) s))

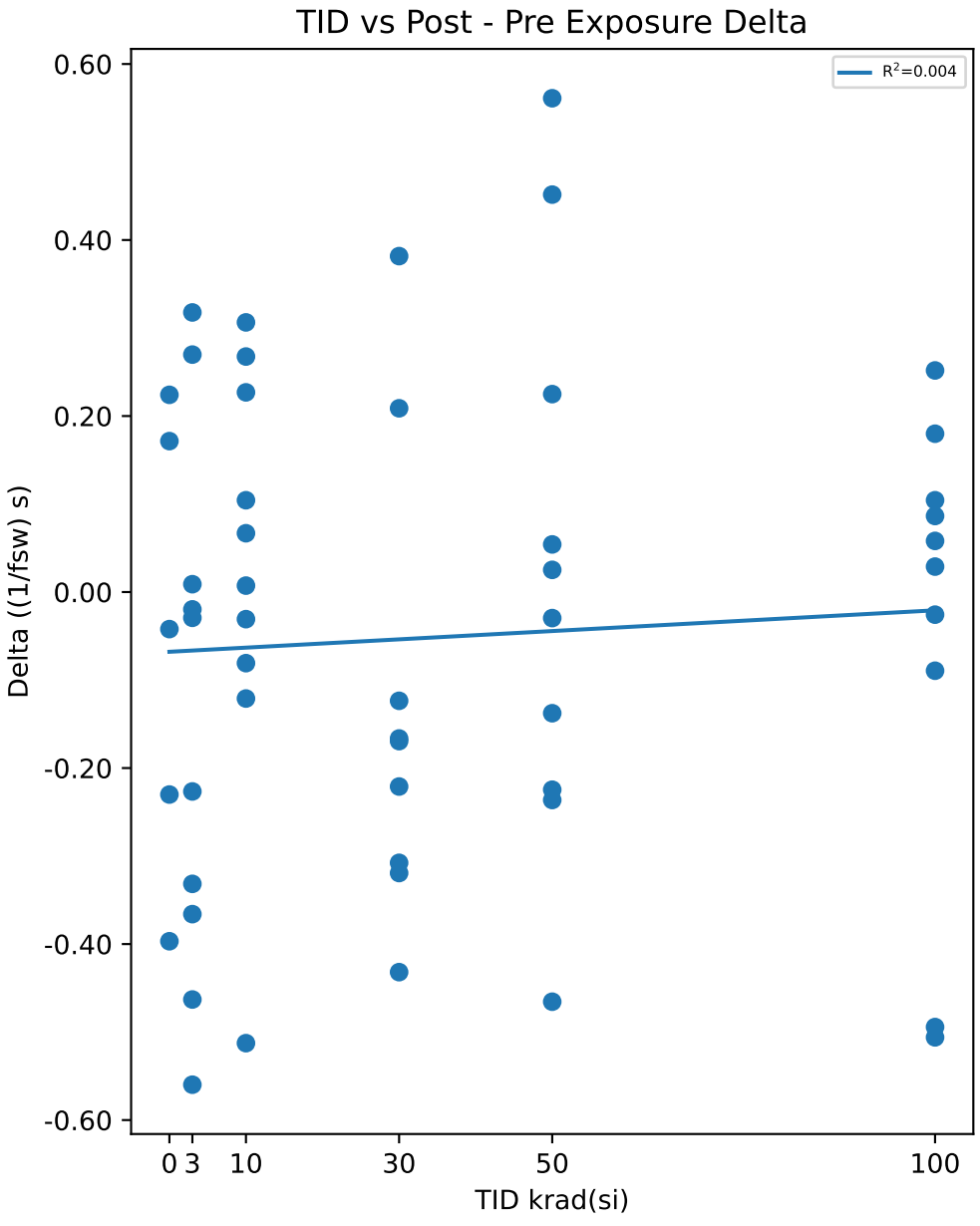
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	5	5	0
411	100	Unbiased	5	5	0
444	30	Unbiased	5	5	0
454	10	Unbiased	5	5	0
491	3	Unbiased	5	5	0
500	100	Unbiased	5	5	0
534	100	Biased	5	5	0
558	0	Correlation	5	5	0
563	100	Biased	5	5	0
570	3	Unbiased	5	5	0
614	10	Unbiased	5	5	0
675	3	Biased	5	5	0
713	100	Unbiased	5	5	0
744	50	Biased	5	5	0
799	50	Biased	5	5	0
842	30	Unbiased	5	5	0
889	3	Unbiased	5	5	0
901	3	Biased	5	5	0
930	50	Unbiased	5	5	0
968	100	Unbiased	5	5	0
976	100	Unbiased	5	5	0
981	3	Biased	5	5	0
1003	10	Biased	5	5	0
1039	3	Biased	5	5	0
1053	100	Biased	5	5	0
1056	0	Correlation	5	5	0
1072	10	Biased	5	5	0
1095	50	Unbiased	5	5	0
1099	0	Correlation	5	5	0
1113	3	Biased	5	5	0
1142	10	Unbiased	5	5	0
1154	10	Biased	5	5	0
1215	50	Unbiased	5	5	0
1222	100	Biased	5	5	0
1229	50	Unbiased	5	5	0
1255	3	Unbiased	5	5	0
1331	30	Unbiased	5	5	0
1359	30	Biased	5	5	0
1375	30	Unbiased	5	5	0
1398	30	Biased	5	5	0
1411	50	Biased	5	5	0
1465	10	Unbiased	5	5	0
1474	50	Biased	5	5	0
1504	50	Biased	5	5	0
1540	100	Biased	5	5	0
1554	3	Unbiased	5	5	0
1662	30	Biased	5	5	0
1679	10	Biased	5	5	0
1697	10	Biased	5	5	0
1703	30	Biased	5	5	0
1704	10	Unbiased	5	5	0
1736	30	Biased	5	5	0
1737	0	Correlation	5	5	0
1748	0	Correlation	5	5	0

Test Statistics ((1/fsw) s)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	5	5	5	0	5	5	5	0	0	0	0	0
3	5	5	5	0	5	5	5	0	0	0	0	0
10	5	5	5	0	5	5	5	0	0	0	0	0
30	5	5	5	0	5	5	5	0	0	0	0	0
50	5	5	5	0	5	5	5	0	0	0	0	0
100	5	5	5	0	5	5	5	0	0	0	0	0

Device Test: 20.84 FREQ|DETECTION/RT/12/12/0/0/5/100kHz//@T_INT_CLK_DET





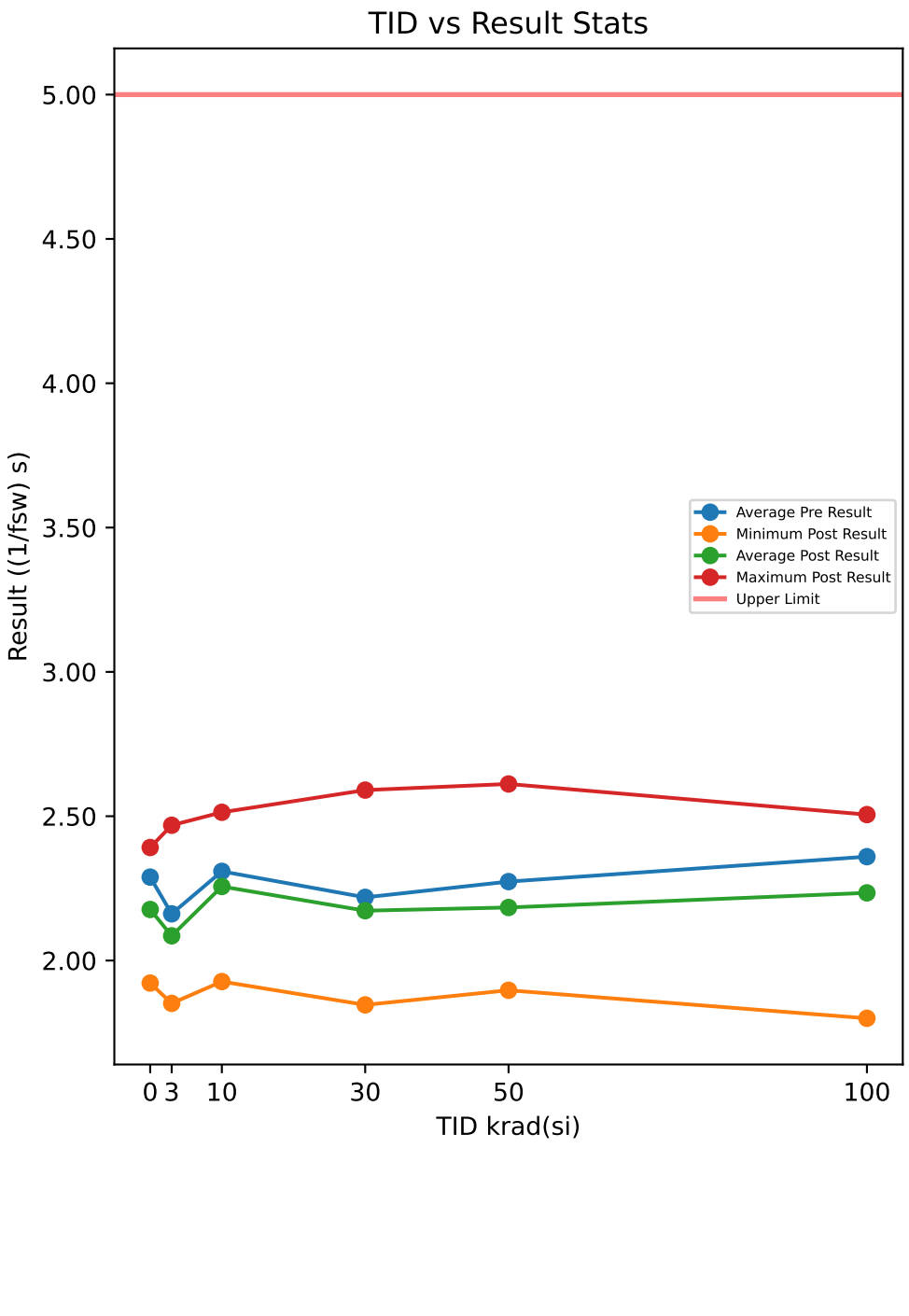
Test Results (Upper Limit = 5.0 ((1/fsw) s))

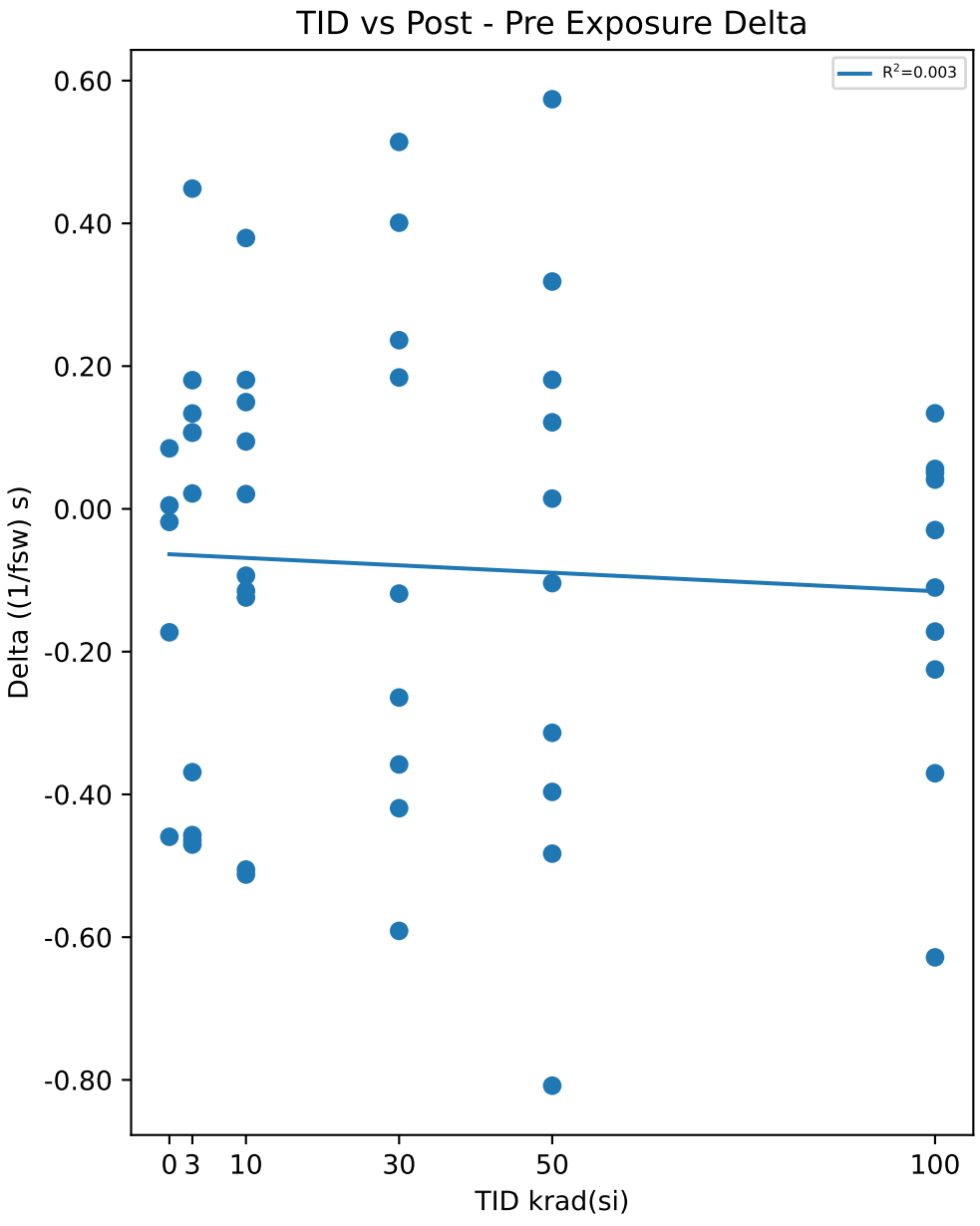
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	2.1	2.0704	-0.0296
411	100	Unbiased	2.5189	2.0129	-0.506
444	30	Unbiased	2.2205	1.9128	-0.3077
454	10	Unbiased	2.3611	2.4654	0.1043
491	3	Unbiased	2.412	2.0804	-0.3316
500	100	Unbiased	2.323	2.3519	0.0289
534	100	Biased	2.3061	2.3642	0.0581
558	0	Correlation	2.4498	2.4077	-0.0421
563	100	Biased	2.3033	2.3897	0.0864
570	3	Unbiased	1.9775	2.2473	0.2698
614	10	Unbiased	1.8451	2.1515	0.3064
675	3	Biased	2.4146	1.8548	-0.5598
713	100	Unbiased	1.774	1.9539	0.1799
744	50	Biased	2.4245	2.4497	0.0252
799	50	Biased	2.1085	2.3334	0.2249
842	30	Unbiased	2.3098	1.8779	-0.4319
889	3	Unbiased	1.9367	1.9456	0.0089
901	3	Biased	2.2878	2.0612	-0.2266
930	50	Unbiased	2.2597	2.122	-0.1377
968	100	Unbiased	2.3887	2.363	-0.0257
976	100	Unbiased	1.9868	1.8974	-0.0894
981	3	Biased	1.9643	1.9446	-0.0197
1003	10	Biased	2.1647	2.4323	0.2676
1039	3	Biased	2.4242	1.9612	-0.463
1053	100	Biased	2.3593	1.865	-0.4943
1056	0	Correlation	2.4521	2.222	-0.2301
1072	10	Biased	2.2132	2.4401	0.2269
1095	50	Unbiased	1.788	2.3491	0.5611
1099	0	Correlation	2.0927	2.3168	0.2241
1113	3	Biased	2.0552	2.0259	-0.0293
1142	10	Unbiased	2.1312	2.198	0.0668
1154	10	Biased	2.19	2.1092	-0.0808
1215	50	Unbiased	2.3404	2.1041	-0.2363
1222	100	Biased	2.2673	2.5191	0.2518
1229	50	Unbiased	1.9948	2.4464	0.4516
1255	3	Unbiased	2.4253	2.0593	-0.366
1331	30	Unbiased	2.5493	2.3829	-0.1664
1359	30	Biased	2.2731	2.0521	-0.221
1375	30	Unbiased	2.3149	1.9956	-0.3193
1398	30	Biased	2.4834	2.3598	-0.1236
1411	50	Biased	2.3301	2.1055	-0.2246
1465	10	Unbiased	2.3153	2.3226	0.0073
1474	50	Biased	1.981	2.0351	0.0541
1504	50	Biased	2.4992	2.0337	-0.4655
1540	100	Biased	2.3205	2.4248	0.1043
1554	3	Unbiased	2.0886	2.4063	0.3177
1662	30	Biased	2.0882	1.9188	-0.1694
1679	10	Biased	2.2801	2.1591	-0.121
1697	10	Biased	1.9913	1.9605	-0.0308
1703	30	Biased	1.9669	2.3486	0.3817
1704	10	Unbiased	2.3986	1.886	-0.5126
1736	30	Biased	2.0657	2.2745	0.2088
1737	0	Correlation	1.9655	2.137	0.1715
1748	0	Correlation	2.4061	2.0093	-0.3968

Test Statistics ((1/fsw) s)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.9655	2.2732	2.4521	0.2281	2.0093	2.2186	2.4077	0.15482	-0.3968	-0.05468	0.2241	0.26308
3	1.9367	2.1986	2.4253	0.21278	1.8548	2.0587	2.4063	0.16153	-0.5598	-0.13996	0.3177	0.29855
10	1.8451	2.1891	2.3986	0.16986	1.886	2.2125	2.4654	0.20104	-0.5126	0.02341	0.3064	0.23846
30	1.9669	2.2524	2.5493	0.19154	1.8779	2.1248	2.3829	0.2135	-0.4319	-0.12764	0.3817	0.26133
50	1.788	2.1826	2.4992	0.22492	2.0337	2.2049	2.4497	0.16954	-0.4655	0.02232	0.5611	0.31811
100	1.774	2.2548	2.5189	0.21492	1.865	2.2142	2.5191	0.24996	-0.506	-0.0406	0.2518	0.26052

Device Test: 20.86 FREQ|DETECTION/RT/14/14/0/0/5/100kHz//@T_INT_CLK_DET





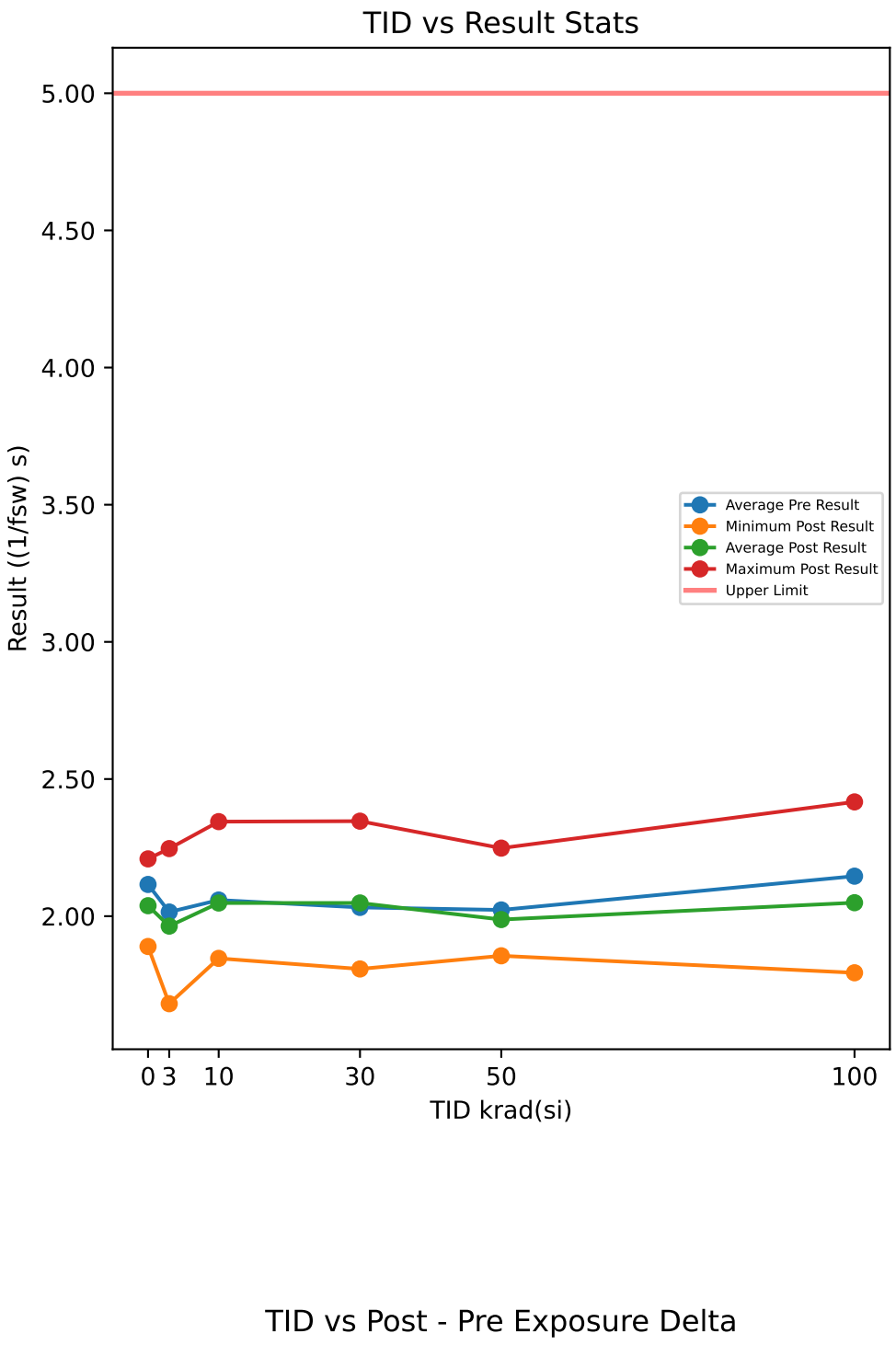
Test Results (Upper Limit = 5.0 ((1/fsw) s))

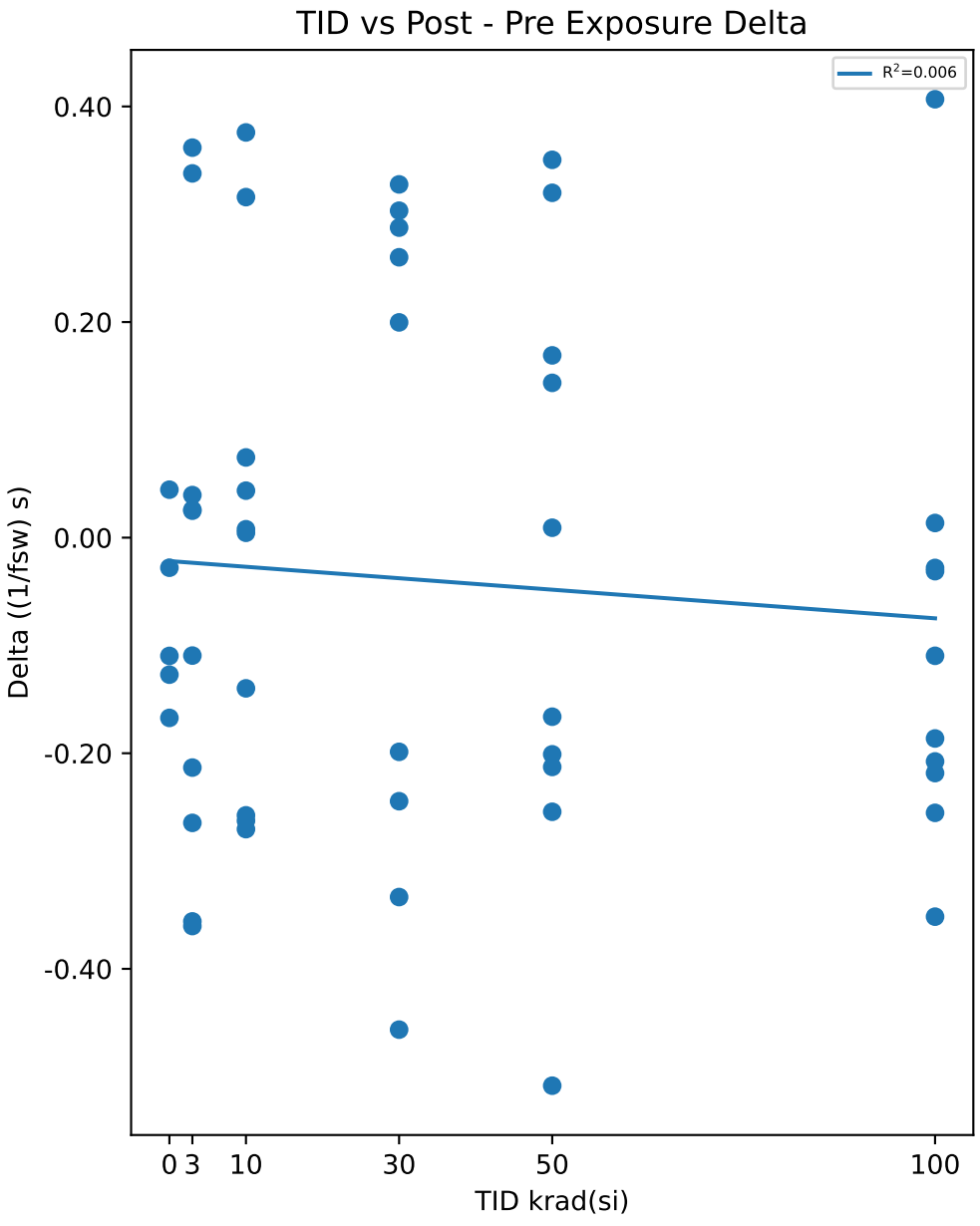
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	2.7584	1.9503	-0.8081
411	100	Unbiased	2.6173	2.2469	-0.3704
444	30	Unbiased	2.445	2.0869	-0.3581
454	10	Unbiased	2.3448	2.4944	0.1496
491	3	Unbiased	2.335	2.4687	0.1337
500	100	Unbiased	2.3886	2.4296	0.041
534	100	Biased	2.44	2.4906	0.0506
558	0	Correlation	2.4666	2.2937	-0.1729
563	100	Biased	2.5148	2.3429	-0.1719
570	3	Unbiased	1.8712	2.3199	0.4487
614	10	Unbiased	1.8225	2.202	0.3795
675	3	Biased	2.3157	1.8516	-0.4641
713	100	Unbiased	2.0249	1.7999	-0.225
744	50	Biased	2.4309	2.6117	0.1808
799	50	Biased	1.8946	2.4685	0.5739
842	30	Unbiased	2.5275	1.9363	-0.5912
889	3	Unbiased	1.8598	1.967	0.1072
901	3	Biased	2.3698	1.9128	-0.457
930	50	Unbiased	2.3396	2.2356	-0.104
968	100	Unbiased	2.3785	2.2683	-0.1102
976	100	Unbiased	2.0505	2.0208	-0.0297
981	3	Biased	1.9547	1.9763	0.0216
1003	10	Biased	2.3977	2.4184	0.0207
1039	3	Biased	2.3768	2.0079	-0.3689
1053	100	Biased	2.4437	1.8154	-0.6283
1056	0	Correlation	2.3867	2.3916	0.0049
1072	10	Biased	2.4282	2.304	-0.1242
1095	50	Unbiased	1.8897	2.2082	0.3185
1099	0	Correlation	2.3622	2.3439	-0.0183
1113	3	Biased	1.9547	2.0614	0.1067
1142	10	Unbiased	2.4802	2.3866	-0.0936
1154	10	Biased	2.4596	1.9543	-0.5053
1215	50	Unbiased	2.5125	2.0295	-0.483
1222	100	Biased	2.3717	2.5056	0.1339
1229	50	Unbiased	2.1815	2.3028	0.1213
1255	3	Unbiased	2.4741	2.0038	-0.4703
1331	30	Unbiased	2.1896	2.5905	0.4009
1359	30	Biased	2.2658	1.8464	-0.4194
1375	30	Unbiased	2.301	2.0367	-0.2643
1398	30	Biased	2.3524	2.5365	0.1841
1411	50	Biased	2.2935	1.897	-0.3965
1465	10	Unbiased	2.333	2.5136	0.1806
1474	50	Biased	2.06	2.0744	0.0144
1504	50	Biased	2.3737	2.06	-0.3137
1540	100	Biased	2.3682	2.4242	0.056
1554	3	Unbiased	2.1064	2.2867	0.1803
1662	30	Biased	2.007	1.8883	-0.1187
1679	10	Biased	2.2479	2.3423	0.0944
1697	10	Biased	2.042	1.9272	-0.1148
1703	30	Biased	1.8566	2.3707	0.5141
1704	10	Unbiased	2.5344	2.0221	-0.5123
1736	30	Biased	2.0254	2.2617	0.2363
1737	0	Correlation	1.8484	1.9332	0.0848
1748	0	Correlation	2.3814	1.922	-0.4594

Test Statistics ((1/fsw) s)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.8484	2.2891	2.4666	0.24956	1.922	2.1769	2.3916	0.23021	-0.4594	-0.11218	0.0848	0.21539
3	1.8598	2.1618	2.4741	0.23693	1.8516	2.0856	2.4687	0.20167	-0.4703	-0.07621	0.4487	0.33308
10	1.8225	2.309	2.5344	0.22071	1.9272	2.2565	2.5136	0.21938	-0.5123	-0.05254	0.3795	0.28595
30	1.8566	2.2189	2.5275	0.22011	1.8464	2.1727	2.5905	0.27909	-0.5912	-0.046256	0.5141	0.3926
50	1.8897	2.2734	2.7584	0.27422	1.897	2.1838	2.6117	0.22839	-0.8081	-0.08964	0.5739	0.41511
100	2.0249	2.3598	2.6173	0.18649	1.7999	2.2344	2.5056	0.26591	-0.6283	-0.1254	0.1339	0.2341

Device Test: 20.88 FREQ|DETECTION/RT/12/12/0/0/5/200kHz//@T_INT_CLK_DET





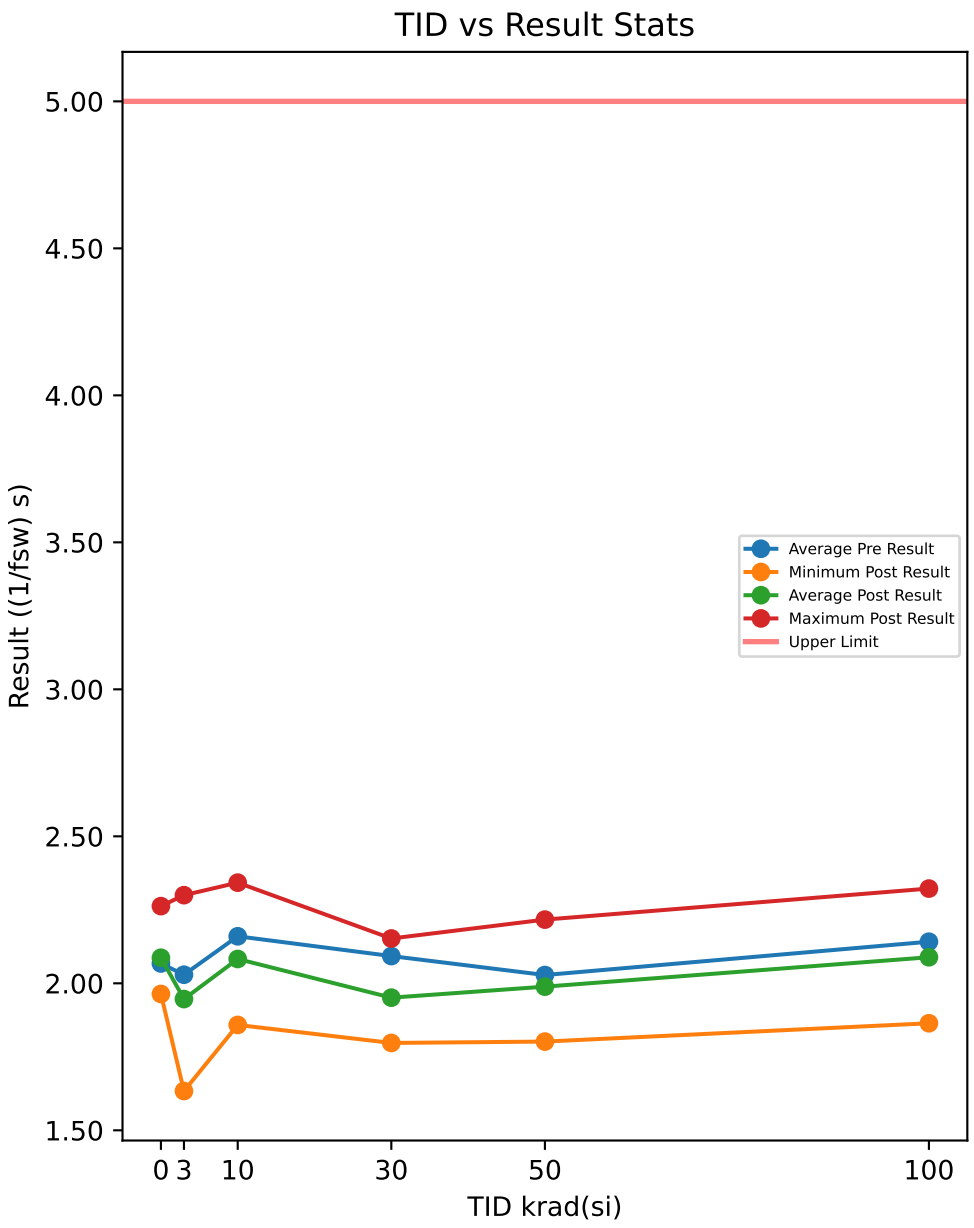
Test Results (Upper Limit = 5.0 ((1/fsw) s))

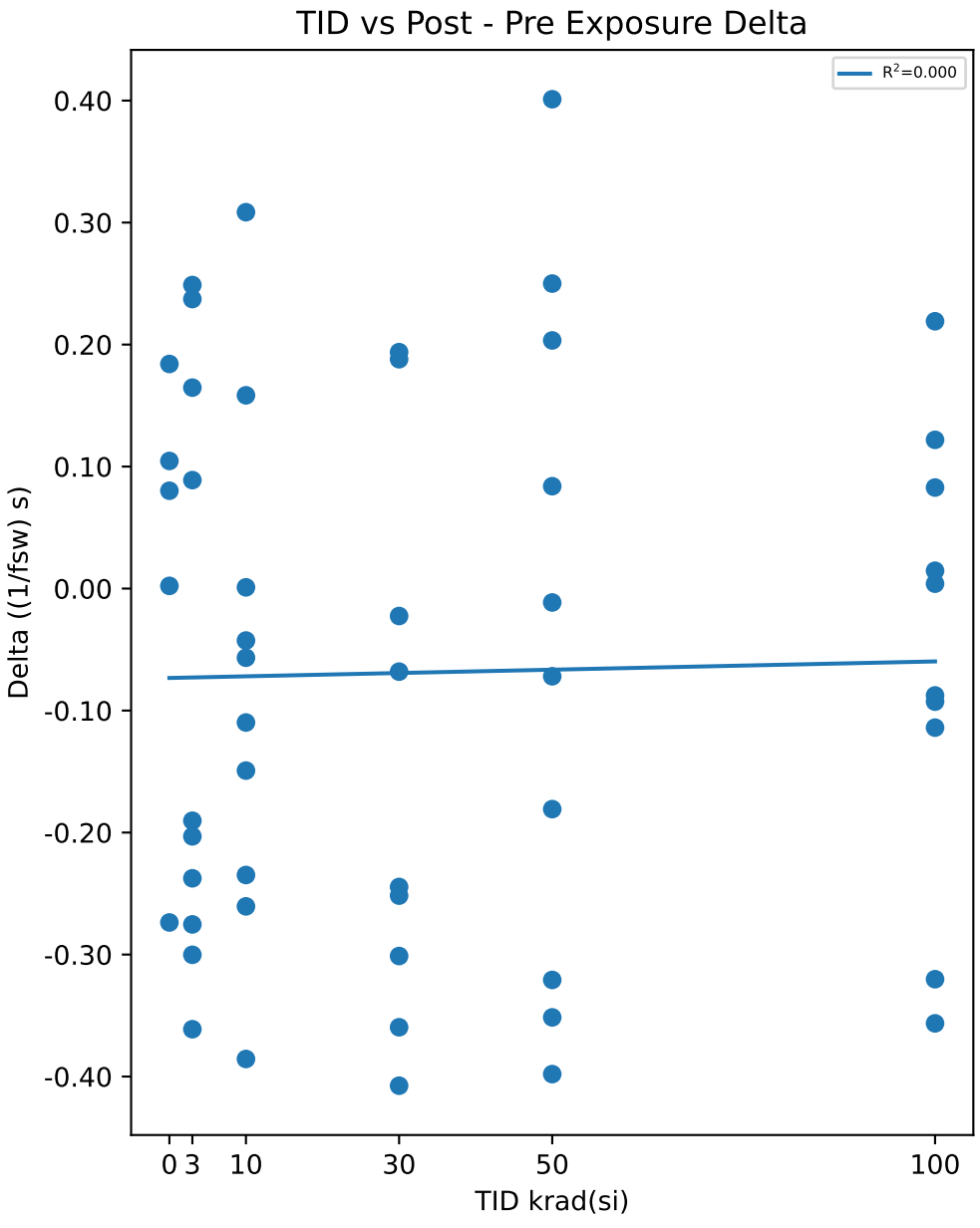
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	2.0922	1.8795	-0.2127
411	100	Unbiased	2.1879	1.8363	-0.3516
444	30	Unbiased	2.1225	1.878	-0.2445
454	10	Unbiased	2.0288	2.3447	0.3159
491	3	Unbiased	2.1844	2.2103	0.0259
500	100	Unbiased	2.2544	1.9991	-0.2553
534	100	Biased	2.2719	2.2438	-0.0281
558	0	Correlation	2.2711	2.1614	-0.1097
563	100	Biased	2.2137	2.2273	0.0136
570	3	Unbiased	1.8846	2.2464	0.3618
614	10	Unbiased	1.6531	2.029	0.3759
675	3	Biased	2.0369	1.6809	-0.356
713	100	Unbiased	1.9219	1.8123	-0.1096
744	50	Biased	2.2389	2.2481	0.0092
799	50	Biased	1.8254	2.1759	0.3505
842	30	Unbiased	2.1959	1.9972	-0.1987
889	3	Unbiased	1.9216	1.9611	0.0395
901	3	Biased	2.2228	2.0095	-0.2133
930	50	Unbiased	2.1035	1.9025	-0.201
968	100	Unbiased	2.0099	2.4166	0.4067
976	100	Unbiased	1.98	1.7937	-0.1863
981	3	Biased	1.8445	1.7351	-0.1094
1003	10	Biased	2.0137	2.0215	0.0078
1039	3	Biased	2.0631	1.7985	-0.2646
1053	100	Biased	2.1006	1.893	-0.2076
1056	0	Correlation	2.1644	2.2089	0.0445
1072	10	Biased	2.0269	2.1013	0.0744
1095	50	Unbiased	1.7519	2.0718	0.3199
1099	0	Correlation	2.1258	1.9987	-0.1271
1113	3	Biased	1.9326	1.9576	0.025
1142	10	Unbiased	2.1374	2.1419	0.0045
1154	10	Biased	2.1088	1.8462	-0.2626
1215	50	Unbiased	2.0481	1.882	-0.1661
1222	100	Biased	2.3089	2.0905	-0.2184
1229	50	Unbiased	1.8892	2.0328	0.1436
1255	3	Unbiased	2.2885	1.9282	-0.3603
1331	30	Unbiased	2.0431	2.3464	0.3033
1359	30	Biased	2.2317	1.8983	-0.3334
1375	30	Unbiased	2.264	1.8076	-0.4564
1398	30	Biased	2.0177	2.2778	0.2601
1411	50	Biased	2.364	1.8556	-0.5084
1465	10	Unbiased	2.2358	2.096	-0.1398
1474	50	Biased	1.7938	1.9629	0.1691
1504	50	Biased	2.1204	1.8661	-0.2543
1540	100	Biased	2.2098	2.1787	-0.0311
1554	3	Unbiased	1.773	2.1109	0.3379
1662	30	Biased	1.6442	1.8439	0.1997
1679	10	Biased	2.2689	1.9985	-0.2704
1697	10	Biased	1.9792	2.0228	0.0436
1703	30	Biased	1.8889	2.1765	0.2876
1704	10	Unbiased	2.1362	1.8786	-0.2576
1736	30	Biased	1.8802	2.2079	0.3277
1737	0	Correlation	1.9174	1.8895	-0.0279
1748	0	Correlation	2.0997	1.9325	-0.1672

Test Statistics ((1/fsw) s)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.9174	2.1157	2.2711	0.12865	1.8895	2.0382	2.2089	0.14068	-0.1672	-0.07748	0.0445	0.084981
3	1.773	2.0152	2.2885	0.17308	1.6809	1.9639	2.2464	0.19012	-0.3603	-0.05135	0.3618	0.2594
10	1.6531	2.0589	2.2689	0.1716	1.8462	2.048	2.3447	0.13967	-0.2704	-0.01083	0.3759	0.22983
30	1.6442	2.032	2.264	0.20093	1.8076	2.0482	2.3464	0.20533	-0.4564	0.016156	0.3277	0.31741
50	1.7519	2.0227	2.364	0.20201	1.8556	1.9877	2.2481	0.13957	-0.5084	-0.03502	0.3505	0.27861
100	1.9219	2.1459	2.3089	0.13454	1.7937	2.0491	2.4166	0.21517	-0.3516	-0.09677	0.4067	0.21082

Device Test: 20.90 FREQ|DETECTION/RT/14/14/0/0/5/200kHz//@T_INT_CLK_DET





Test Results (Upper Limit = 5.0 ((1/fsw) s))

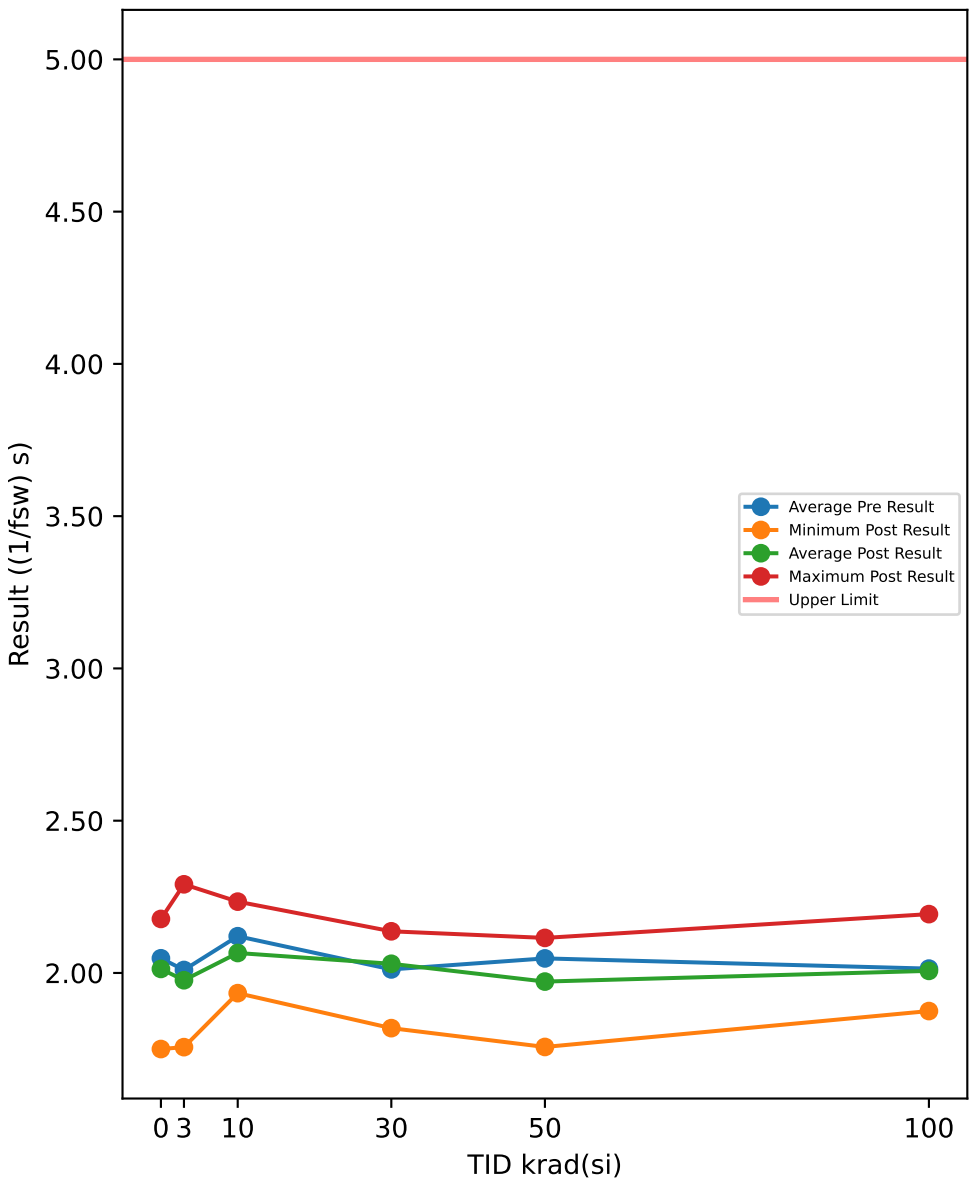
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	2.0698	1.889	-0.1808
411	100	Unbiased	2.2205	1.8641	-0.3564
444	30	Unbiased	2.1143	1.8131	-0.3012
454	10	Unbiased	2.184	2.3424	0.1584
491	3	Unbiased	2.1351	2.2998	0.1647
500	100	Unbiased	2.1522	2.1668	0.0146
534	100	Biased	2.1032	2.3223	0.2191
558	0	Correlation	2.158	2.2626	0.1046
563	100	Biased	2.1706	2.2534	0.0828
570	3	Unbiased	1.9731	2.2104	0.2373
614	10	Unbiased	1.8193	2.1278	0.3085
675	3	Biased	2.26	1.9598	-0.3002
713	100	Unbiased	1.9645	1.8718	-0.0927
744	50	Biased	2.1542	2.1428	-0.0114
799	50	Biased	1.8156	2.2167	0.4011
842	30	Unbiased	2.244	1.8365	-0.4075
889	3	Unbiased	1.9089	1.6336	-0.2753
901	3	Biased	2.0377	1.8346	-0.2031
930	50	Unbiased	2.0952	2.0233	-0.0719
968	100	Unbiased	2.1052	2.2271	0.1219
976	100	Unbiased	2.0147	1.9007	-0.114
981	3	Biased	1.848	1.9369	0.0889
1003	10	Biased	2.1666	2.0568	-0.1098
1039	3	Biased	2.0438	1.8063	-0.2375
1053	100	Biased	2.2222	1.902	-0.3202
1056	0	Correlation	2.1139	2.1941	0.0802
1072	10	Biased	2.0828	2.0838	0.001
1095	50	Unbiased	1.94	2.1434	0.2034
1099	0	Correlation	2.0153	2.0175	0.0022
1113	3	Biased	2.0208	1.8305	-0.1903
1142	10	Unbiased	2.3558	2.2066	-0.1492
1154	10	Biased	2.0932	1.8584	-0.2348
1215	50	Unbiased	2.192	1.8712	-0.3208
1222	100	Biased	2.195	2.199	0.004
1229	50	Unbiased	1.7431	1.9931	0.25
1255	3	Unbiased	2.2882	1.927	-0.3612
1331	30	Unbiased	2.1771	2.109	-0.0681
1359	30	Biased	2.1568	1.7972	-0.3596
1375	30	Unbiased	2.1276	1.883	-0.2446
1398	30	Biased	2.2736	2.0219	-0.2517
1411	50	Biased	2.1936	1.8421	-0.3515
1465	10	Unbiased	2.455	2.1945	-0.2605
1474	50	Biased	1.8789	1.9628	0.0839
1504	50	Biased	2.1998	1.8018	-0.398
1540	100	Biased	2.267	2.1794	-0.0876
1554	3	Unbiased	1.7767	2.0255	0.2488
1662	30	Biased	1.8213	1.7988	-0.0225
1679	10	Biased	2.1957	2.1531	-0.0426
1697	10	Biased	1.9245	1.8678	-0.0567
1703	30	Biased	1.9609	2.1489	0.188
1704	10	Unbiased	2.3223	1.9367	-0.3856
1736	30	Biased	1.9587	2.1525	0.1938
1737	0	Correlation	1.7797	1.9638	0.1841
1748	0	Correlation	2.2704	1.9967	-0.2737

Test Statistics ((1/fsw) s)

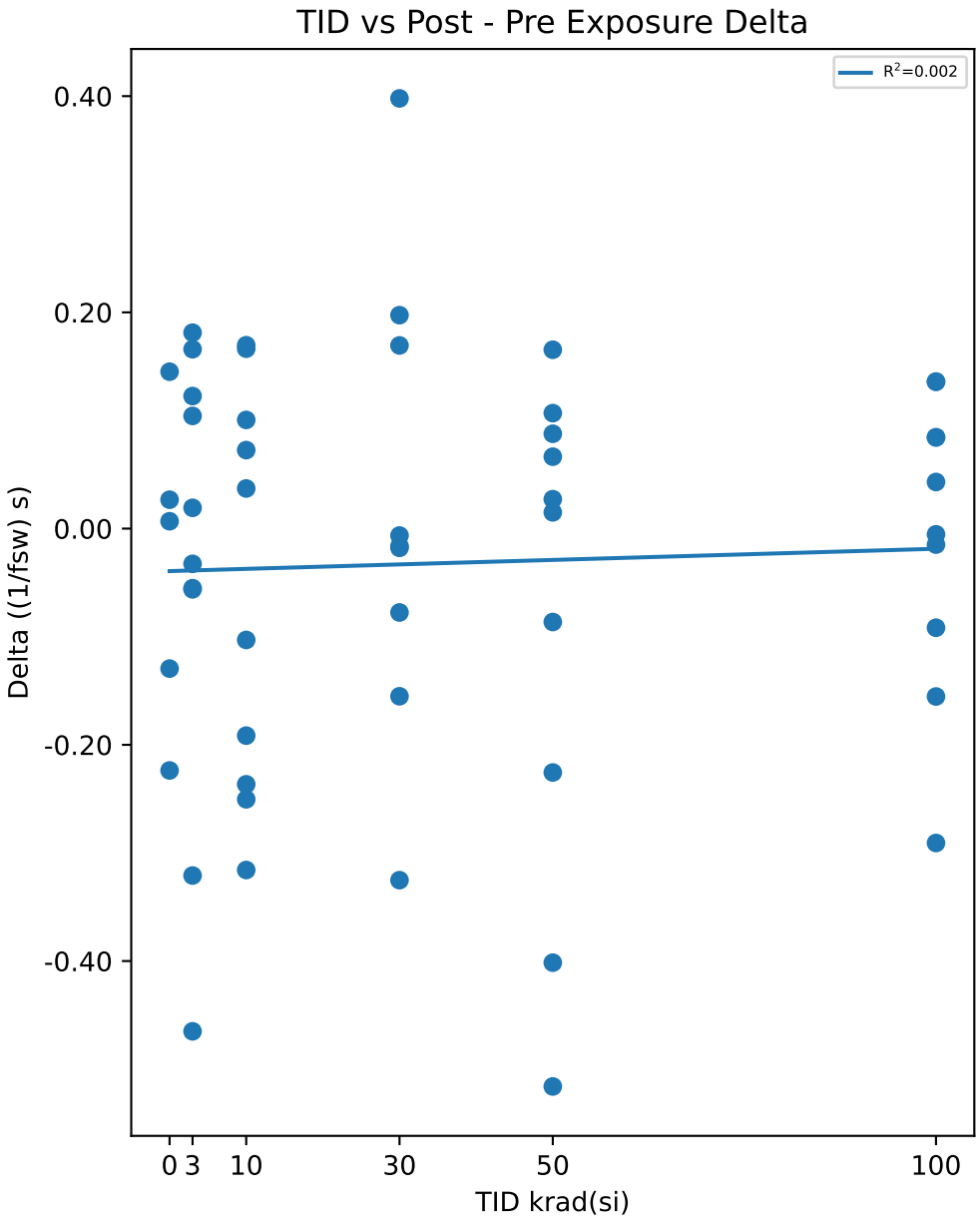
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.7797	2.0675	2.2704	0.18511	1.9638	2.0869	2.2626	0.13273	-0.2737	0.01948	0.1841	0.17627
3	1.7767	2.0292	2.2882	0.16537	1.6336	1.9464	2.2998	0.19576	-0.3612	-0.08279	0.2488	0.2392
10	1.8193	2.1599	2.455	0.19309	1.8584	2.0828	2.3424	0.15662	-0.3856	-0.07713	0.3085	0.20325
30	1.8213	2.0927	2.2736	0.14896	1.7972	1.9512	2.1525	0.15545	-0.4075	-0.14149	0.1938	0.2256
50	1.7431	2.0282	2.1998	0.17071	1.8018	1.9886	2.2167	0.1421	-0.398	-0.0396	0.4011	0.27466
100	1.9645	2.1415	2.267	0.095754	1.8641	2.0887	2.3223	0.18106	-0.3564	-0.05285	0.2191	0.18283

Device Test: 20.92 FREQ|DETECTION/RT/12/12/0/0/5/500kHz//@T_INT_CLK_DET

TID vs Result Stats



TID vs Post - Pre Exposure Delta



Test Results (Upper Limit = 5.0 ((1/fsw) s))

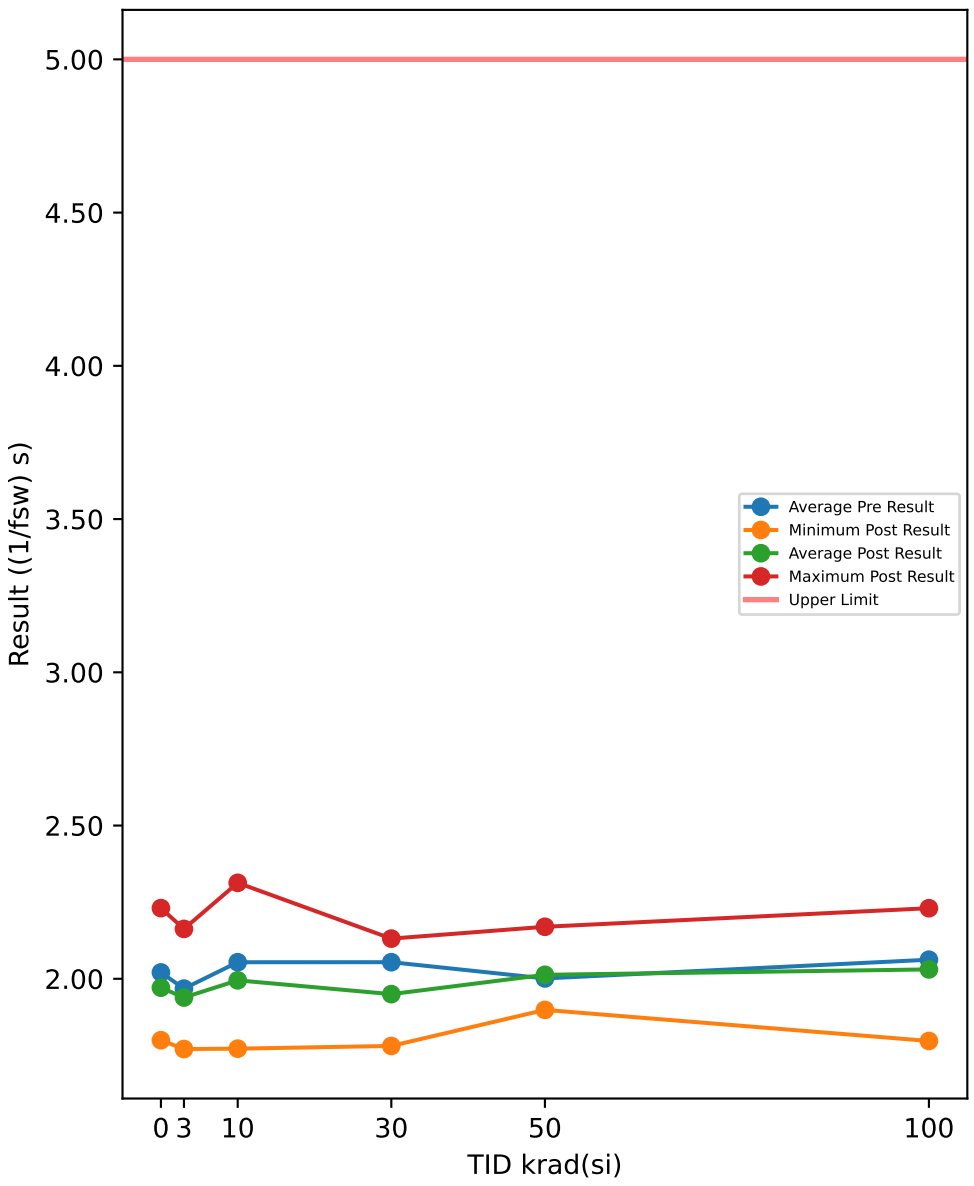
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	2.0515	1.8259	-0.2256
411	100	Unbiased	2.1657	1.8749	-0.2908
444	30	Unbiased	1.8912	2.0886	0.1974
454	10	Unbiased	2.2183	2.0268	-0.1915
491	3	Unbiased	2.1099	2.2911	0.1812
500	100	Unbiased	1.9275	2.0118	0.0843
534	100	Biased	2.0871	1.9318	-0.1553
558	0	Correlation	2.0911	2.1178	0.0267
563	100	Biased	2.0986	2.0069	-0.0917
570	3	Unbiased	1.9213	2.0872	0.1659
614	10	Unbiased	1.9407	2.1071	0.1664
675	3	Biased	2.2587	1.7937	-0.465
713	100	Unbiased	1.8899	1.9744	0.0845
744	50	Biased	2.0113	2.099	0.0877
799	50	Biased	2.0763	2.1035	0.0272
842	30	Unbiased	2.0935	1.9384	-0.1551
889	3	Unbiased	1.7372	1.7564	0.0192
901	3	Biased	2.0185	1.9623	-0.0562
930	50	Unbiased	2.09	2.0036	-0.0864
968	100	Unbiased	2.1985	2.1932	-0.0053
976	100	Unbiased	1.8903	1.8755	-0.0148
981	3	Biased	2.0462	1.9911	-0.0551
1003	10	Biased	2.1841	2.0811	-0.103
1039	3	Biased	2.0443	2.0117	-0.0326
1053	100	Biased	1.963	2.0061	0.0431
1056	0	Correlation	2.0756	2.0824	0.0068
1072	10	Biased	2.0861	2.1232	0.0371
1095	50	Unbiased	1.9271	2.0925	0.1654
1099	0	Correlation	2.0323	2.1774	0.1451
1113	3	Biased	1.9116	2.0342	0.1226
1142	10	Unbiased	2.0808	2.1813	0.1005
1154	10	Biased	2.2495	1.9337	-0.3158
1215	50	Unbiased	2.1585	1.757	-0.4015
1222	100	Biased	2.0185	2.1543	0.1358
1229	50	Unbiased	2.0083	2.1151	0.1068
1255	3	Unbiased	2.15	1.8291	-0.3209
1331	30	Unbiased	2.1331	2.1267	-0.0064
1359	30	Biased	2.144	1.8188	-0.3252
1375	30	Unbiased	2.0471	2.0293	-0.0178
1398	30	Biased	2.157	2.0794	-0.0776
1411	50	Biased	2.0149	2.0299	0.015
1465	10	Unbiased	2.1616	2.2342	0.0726
1474	50	Biased	1.8627	1.9292	0.0665
1504	50	Biased	2.2774	1.7614	-0.516
1540	100	Biased	1.9037	2.0397	0.136
1554	3	Unbiased	1.9	2.0042	0.1042
1662	30	Biased	1.9472	1.931	-0.0162
1679	10	Biased	2.2356	1.9852	-0.2504
1697	10	Biased	1.8193	1.9889	0.1696
1703	30	Biased	1.9674	2.1368	0.1694
1704	10	Unbiased	2.2304	1.9939	-0.2365
1736	30	Biased	1.7245	2.1224	0.3979
1737	0	Correlation	1.8797	1.7502	-0.1295
1748	0	Correlation	2.1623	1.9386	-0.2237

Test Statistics ((1/fsw) s)

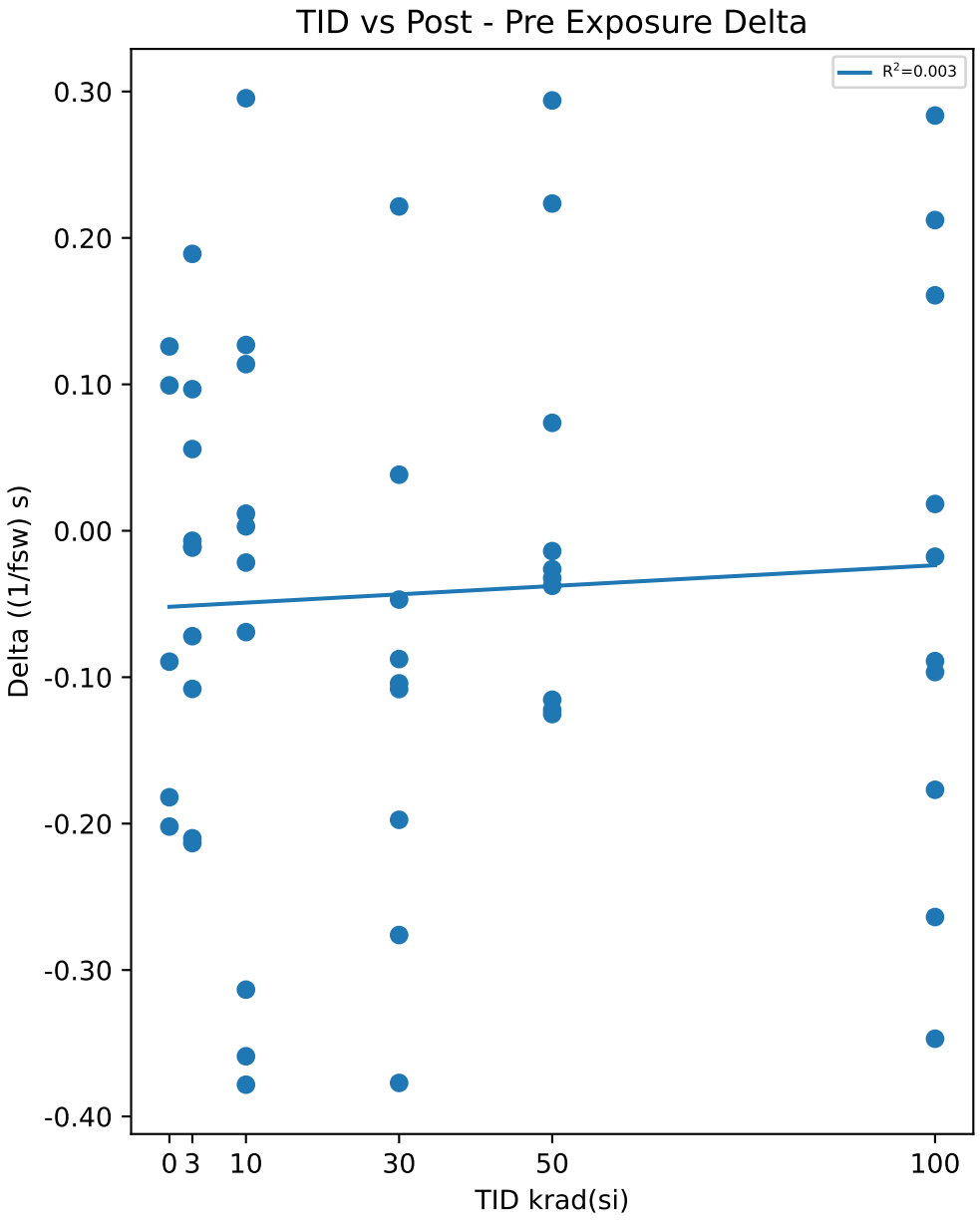
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.8797	2.0482	2.1623	0.10518	1.7502	2.0133	2.1774	0.17134	-0.2237	-0.03492	0.1451	0.14364
3	1.7372	2.0098	2.2587	0.14835	1.7564	1.9761	2.2911	0.15655	-0.465	-0.03367	0.1812	0.21128
10	1.8193	2.1206	2.2495	0.14262	1.9337	2.0655	2.2342	0.096312	-0.3158	-0.0551	0.1696	0.18514
30	1.7245	2.0117	2.157	0.14336	1.8188	2.0302	2.1368	0.11066	-0.3252	0.018489	0.3979	0.21194
50	1.8627	2.0478	2.2774	0.11565	1.757	1.9717	2.1151	0.14396	-0.516	-0.07609	0.1654	0.23088
100	1.8899	2.0143	2.1985	0.11668	1.8749	2.0069	2.1932	0.10484	-0.2908	-0.00742	0.136	0.13737

Device Test: 20.94 FREQ|DETECTION/RT/14/14/0/0/5/500kHz//@T_INT_CLK_DET

TID vs Result Stats



TID vs Post - Pre Exposure Delta



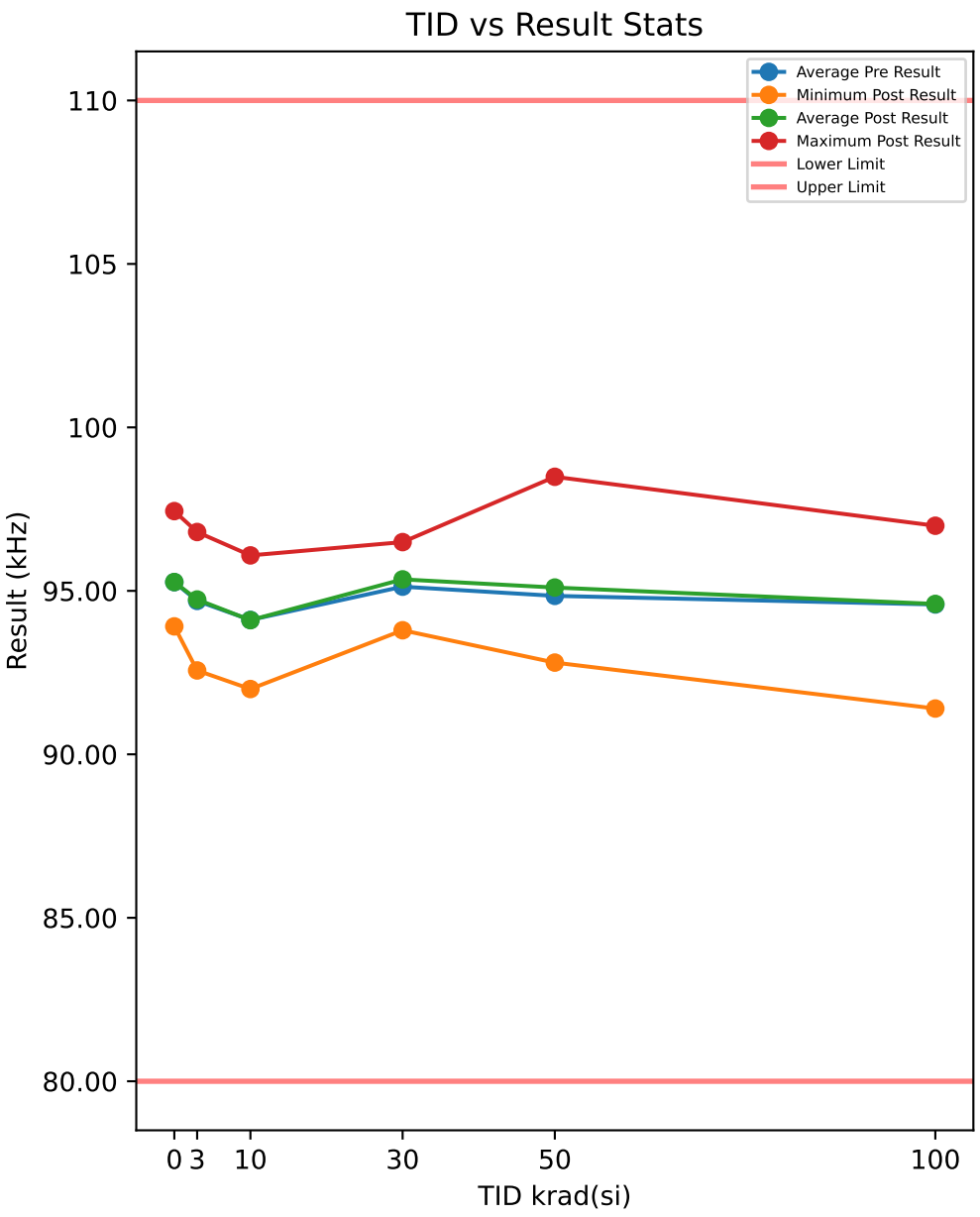
Test Results (Upper Limit = 5.0 ((1/fsw) s))

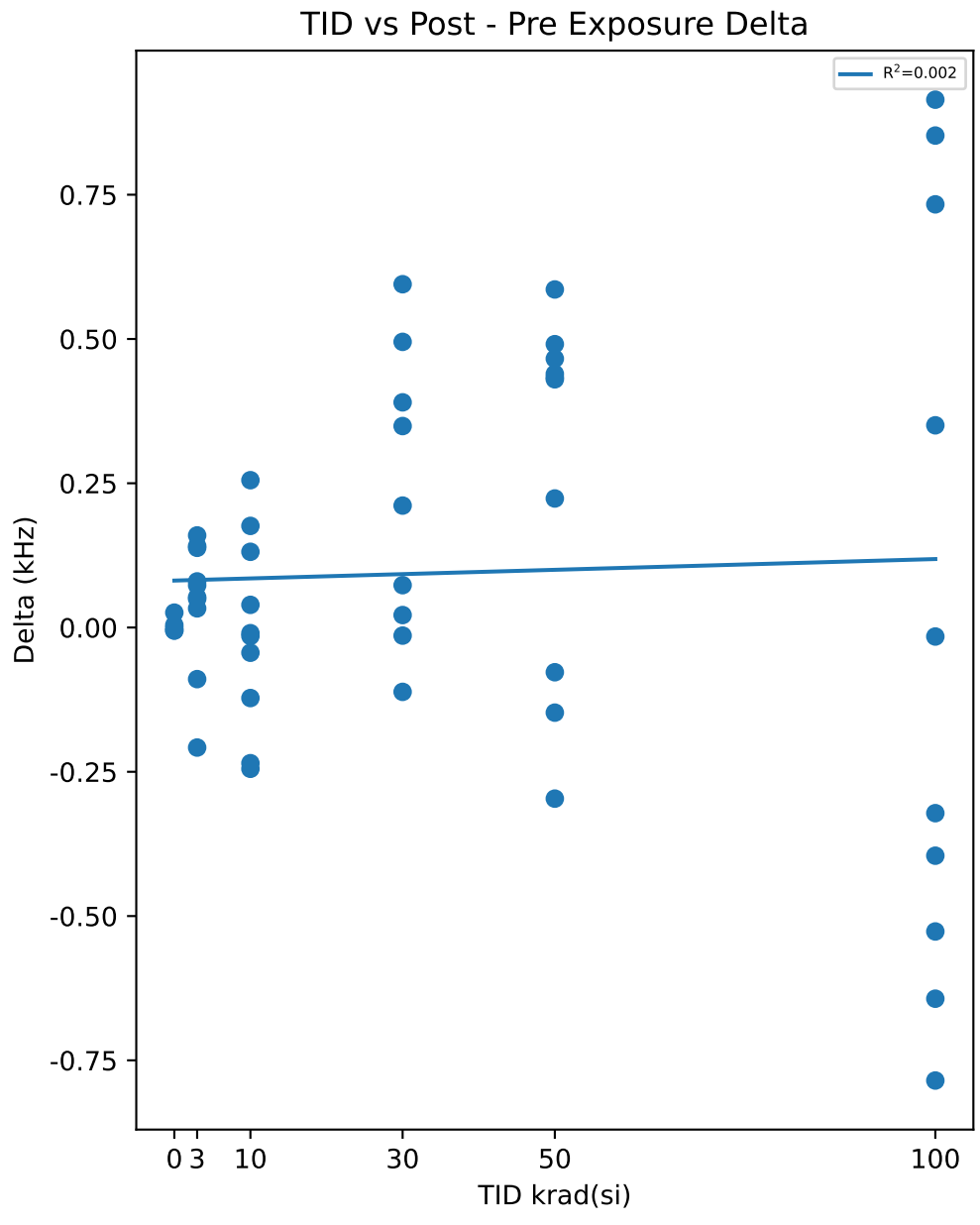
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	2.089	2.1627	0.0737
411	100	Unbiased	2.267	1.9201	-0.3469
444	30	Unbiased	1.9203	1.8161	-0.1042
454	10	Unbiased	1.9919	2.0036	0.0117
491	3	Unbiased	2.1115	2.0035	-0.108
500	100	Unbiased	2.0781	2.0964	0.0183
534	100	Biased	2.0021	1.9844	-0.0177
558	0	Correlation	2.1047	2.2306	0.1259
563	100	Biased	1.9351	2.1473	0.2122
570	3	Unbiased	1.9736	2.1627	0.1891
614	10	Unbiased	1.9084	2.0222	0.1138
675	3	Biased	1.9841	1.7708	-0.2133
713	100	Unbiased	1.724	2.0076	0.2836
744	50	Biased	2.2851	2.1697	-0.1154
799	50	Biased	1.8138	2.0373	0.2235
842	30	Unbiased	2.0491	1.8517	-0.1974
889	3	Unbiased	1.9081	1.8361	-0.072
901	3	Biased	2.0591	1.8491	-0.21
930	50	Unbiased	1.9769	1.9393	-0.0376
968	100	Unbiased	2.3775	2.1137	-0.2638
976	100	Unbiased	1.8861	1.7971	-0.089
981	3	Biased	1.8848	1.8741	-0.0107
1003	10	Biased	2.1014	2.0797	-0.0217
1039	3	Biased	1.9465	1.935	-0.0115
1053	100	Biased	2.1487	1.9718	-0.1769
1056	0	Correlation	2.1775	1.9755	-0.202
1072	10	Biased	2.1206	2.1236	0.003
1095	50	Unbiased	1.7749	2.0688	0.2939
1099	0	Correlation	1.941	2.0403	0.0993
1113	3	Biased	1.812	1.8678	0.0558
1142	10	Unbiased	2.1091	2.0399	-0.0692
1154	10	Biased	2.1852	1.8263	-0.3589
1215	50	Unbiased	2.1287	2.0035	-0.1252
1222	100	Biased	2.0695	2.2303	0.1608
1229	50	Unbiased	1.9308	1.8985	-0.0323
1255	3	Unbiased	1.9808	1.974	-0.0068
1331	30	Unbiased	2.2187	2.1311	-0.0876
1359	30	Biased	2.1504	1.8743	-0.2761
1375	30	Unbiased	2.158	1.7809	-0.3771
1398	30	Biased	2.2095	2.1014	-0.1081
1411	50	Biased	2.0664	1.9441	-0.1223
1465	10	Unbiased	2.0177	2.3131	0.2954
1474	50	Biased	1.9167	1.9028	-0.0139
1504	50	Biased	2.0297	2.0035	-0.0262
1540	100	Biased	2.1338	2.0373	-0.0965
1554	3	Unbiased	2.0188	2.1155	0.0967
1662	30	Biased	1.9363	1.8893	-0.047
1679	10	Biased	2.2629	1.9495	-0.3134
1697	10	Biased	1.6928	1.8197	0.1269
1703	30	Biased	1.9931	2.0314	0.0383
1704	10	Unbiased	2.1503	1.772	-0.3783
1736	30	Biased	1.8519	2.0734	0.2215
1737	0	Correlation	1.889	1.7996	-0.0894
1748	0	Correlation	1.9914	1.8094	-0.182

Test Statistics ((1/fsw) s)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.889	2.0207	2.1775	0.11853	1.7996	1.9711	2.2306	0.17868	-0.202	-0.04964	0.1259	0.15436
3	1.812	1.9679	2.1115	0.086432	1.7708	1.9389	2.1627	0.12598	-0.2133	-0.02907	0.1891	0.12759
10	1.6928	2.054	2.2629	0.16217	1.772	1.995	2.3131	0.16286	-0.3783	-0.05907	0.2954	0.22533
30	1.8519	2.0541	2.2187	0.13589	1.7809	1.95	2.1311	0.13378	-0.3771	-0.10419	0.2215	0.17416
50	1.7749	2.0012	2.2851	0.15226	1.8985	2.013	2.1697	0.097913	-0.1252	0.01182	0.2939	0.1444
100	1.724	2.0622	2.3775	0.18839	1.7971	2.0306	2.2303	0.12366	-0.3469	-0.03159	0.2836	0.2056

Device Test: 20.97 LEVEL|FREQ/RT/8/8/0/0/5/100kHz//@FSW_EXT_RT_A





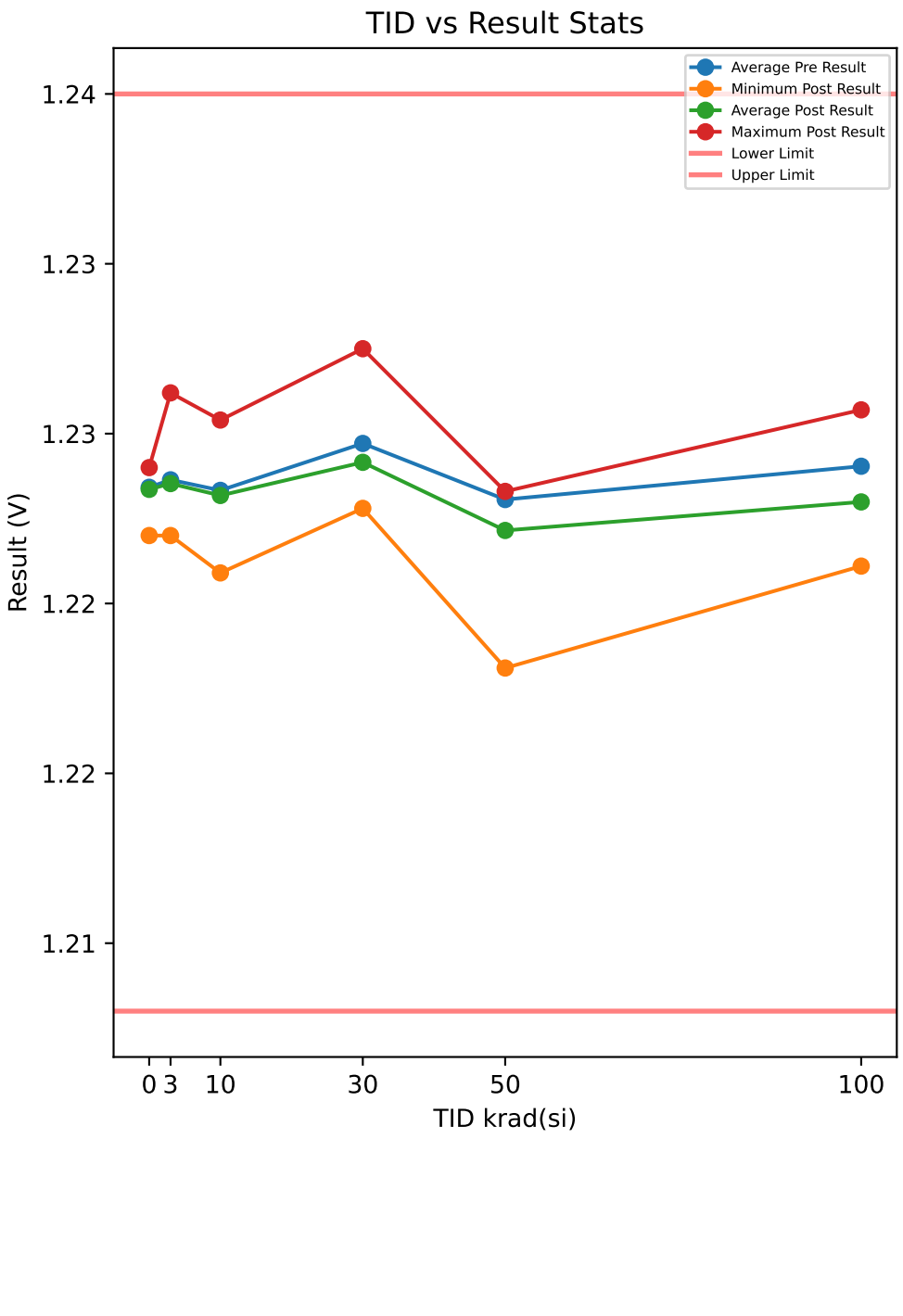
Test Results (Lower Limit = 80.0, Upper Limit = 110.0 (kHz))

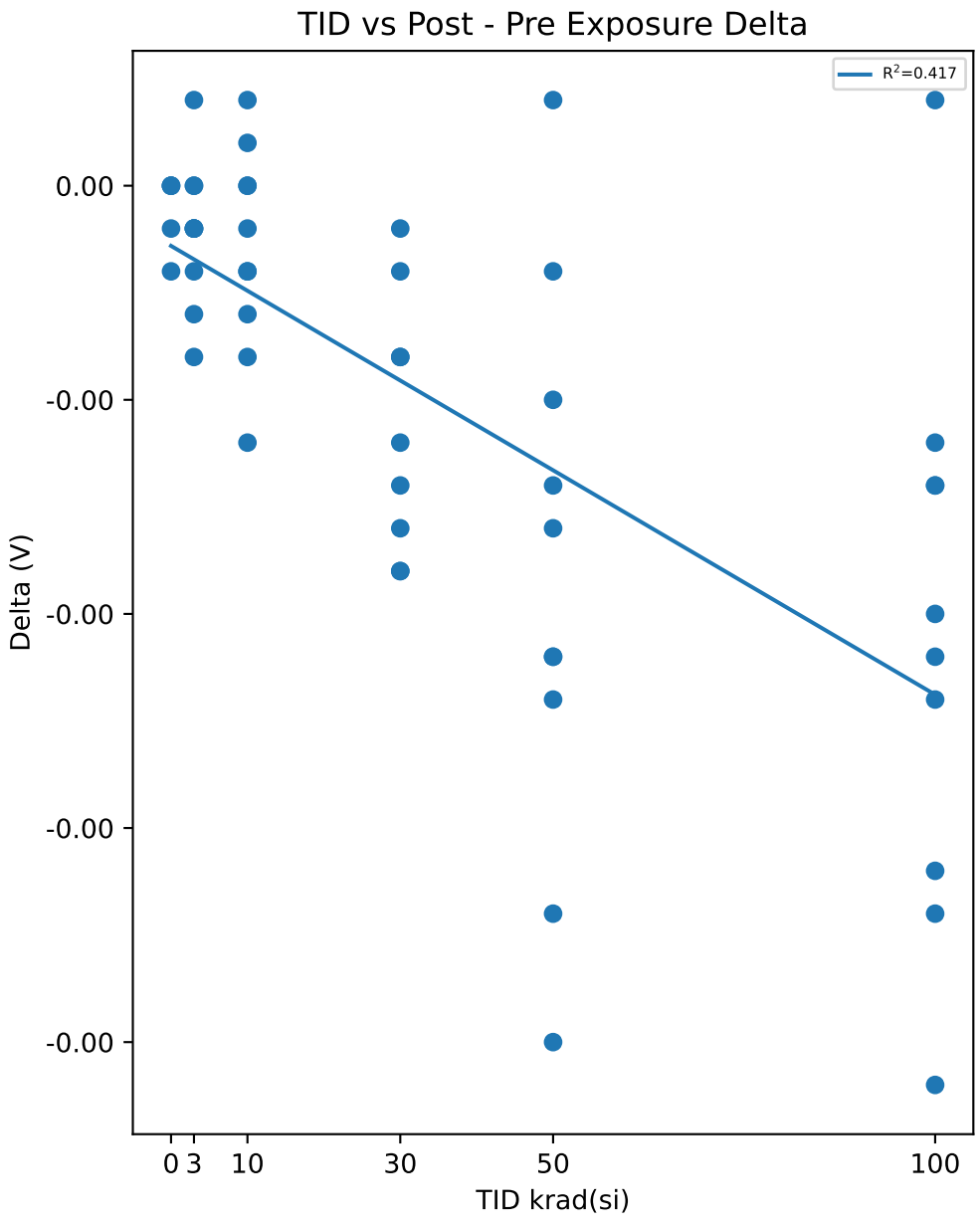
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	94.556	94.989	0.4335
411	100	Unbiased	92.186	91.401	-0.785
444	30	Unbiased	96.101	96.491	0.3902
454	10	Unbiased	93.86	93.738	-0.1222
491	3	Unbiased	95.597	95.735	0.1381
500	100	Unbiased	96.641	96.992	0.3504
534	100	Biased	94.58	93.937	-0.6432
558	0	Correlation	95.35	95.345	-0.005
563	100	Biased	94.948	94.552	-0.3954
570	3	Unbiased	93.792	93.865	0.0731
614	10	Unbiased	95.948	95.987	0.0393
675	3	Biased	96.72	96.799	0.0799
713	100	Unbiased	96.128	96.113	-0.0156
744	50	Biased	93.118	93.548	0.4301
799	50	Biased	93.102	92.806	-0.2965
842	30	Unbiased	93.445	93.795	0.3491
889	3	Unbiased	95.785	95.696	-0.0894
901	3	Biased	94.84	95	0.1596
930	50	Unbiased	97.998	98.489	0.491
968	100	Unbiased	93.106	93.839	0.7333
976	100	Unbiased	93.186	94.038	0.8525
981	3	Biased	94.596	94.629	0.0332
1003	10	Biased	95.022	94.978	-0.0437
1039	3	Biased	96.067	96.117	0.0496
1053	100	Biased	94.164	95.079	0.9147
1056	0	Correlation	94.849	94.844	-0.0053
1072	10	Biased	94.644	94.634	-0.0098
1095	50	Unbiased	96.362	96.948	0.5858
1099	0	Correlation	97.413	97.439	0.0258
1113	3	Biased	92.773	92.565	-0.208
1142	10	Unbiased	95.954	96.085	0.1312
1154	10	Biased	93.199	93.184	-0.0147
1215	50	Unbiased	95.281	95.204	-0.0775
1222	100	Biased	94.801	94.275	-0.5267
1229	50	Unbiased	94.268	94.492	0.2236
1255	3	Unbiased	93.203	93.255	0.0526
1331	30	Unbiased	94.622	94.51	-0.1115
1359	30	Biased	95.836	96.431	0.5949
1375	30	Unbiased	95.116	95.102	-0.014
1398	30	Biased	95.632	95.844	0.2113
1411	50	Biased	94.453	94.893	0.4395
1465	10	Unbiased	93.139	93.315	0.1761
1474	50	Biased	94.858	94.711	-0.1475
1504	50	Biased	94.47	94.936	0.4658
1540	100	Biased	96.093	95.771	-0.3217
1554	3	Unbiased	93.551	93.692	0.1413
1662	30	Biased	94.98	95.475	0.495
1679	10	Biased	93.927	94.182	0.2553
1697	10	Biased	93.177	92.933	-0.2448
1703	30	Biased	94.77	94.792	0.0216
1704	10	Unbiased	92.232	91.997	-0.2351
1736	30	Biased	95.65	95.723	0.0734
1737	0	Correlation	93.914	93.913	-0.0006
1748	0	Correlation	94.802	94.806	0.0043

Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	93.914	95.266	97.413	1.3072	93.913	95.27	97.439	1.3179	-0.0053	0.00384	0.0258	0.012883
3	92.773	94.693	96.72	1.3359	92.565	94.736	96.799	1.3711	-0.208	0.043	0.1596	0.1132
10	92.232	94.11	95.954	1.2542	91.997	94.103	96.085	1.3306	-0.2448	-0.00684	0.2553	0.16561
30	93.445	95.128	96.101	0.80714	93.795	95.351	96.491	0.89206	-0.1115	0.22333	0.5949	0.2468
50	93.102	94.847	97.998	1.4593	92.806	95.101	98.489	1.6051	-0.2965	0.25478	0.5858	0.31337
100	92.186	94.583	96.641	1.4584	91.401	94.6	96.992	1.5379	-0.785	0.01633	0.9147	0.64882

Device Test: 21.11 VOLTAGE|VREF/VREF/14/14/0/0/5/500kHz//@V_REFCAP





Test Results (Lower Limit = 1.208, Upper Limit = 1.235 (V))

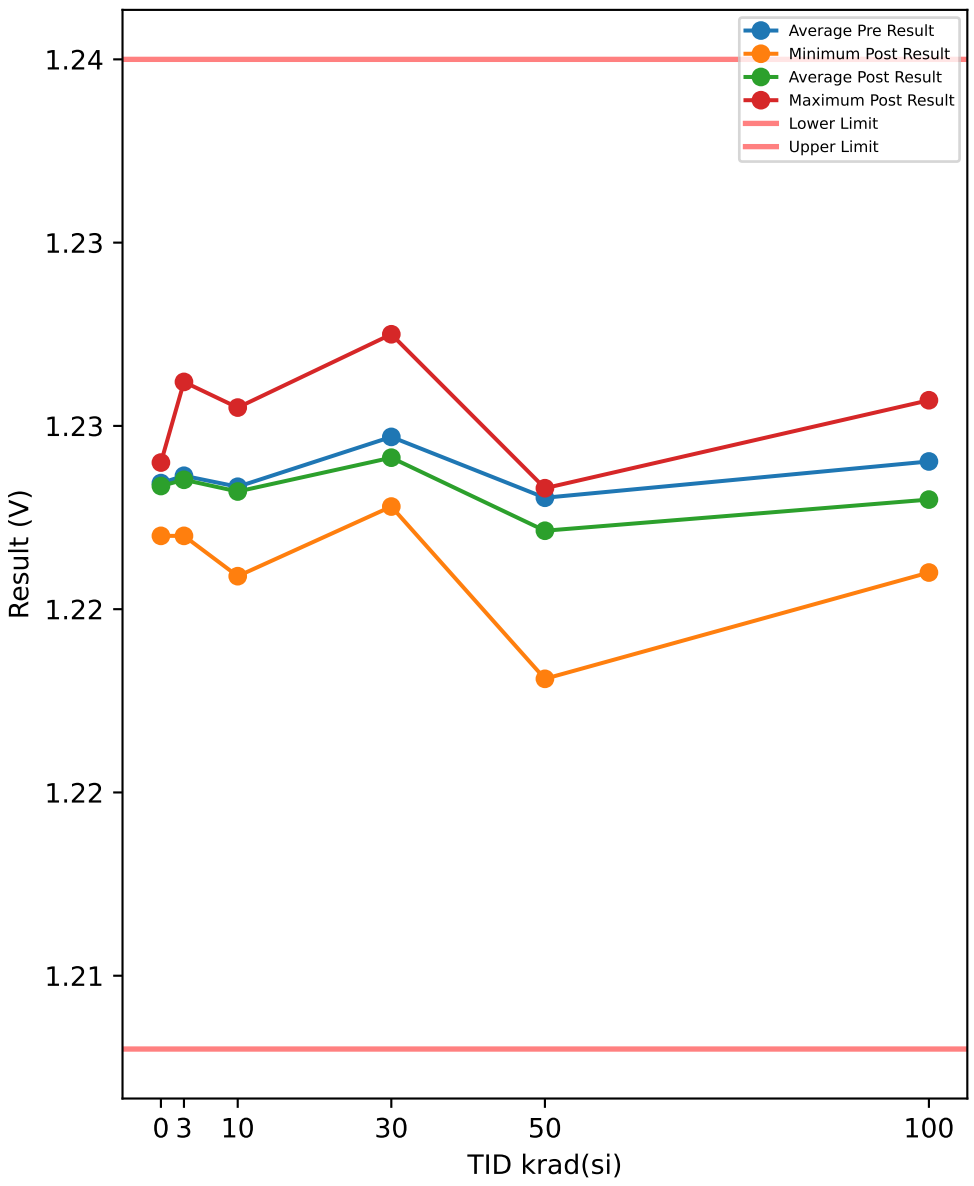
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	1.2241	1.2233	-0.0008
411	100	Unbiased	1.224	1.2223	-0.0017
444	30	Unbiased	1.2276	1.2275	-0.0001
454	10	Unbiased	1.2246	1.2242	-0.0004
491	3	Unbiased	1.2255	1.2255	0
500	100	Unbiased	1.2218	1.2211	-0.0007
534	100	Biased	1.223	1.2219	-0.0011
558	0	Correlation	1.2234	1.2233	-0.0001
563	100	Biased	1.2251	1.2239	-0.0012
570	3	Unbiased	1.2231	1.2233	0.0002
614	10	Unbiased	1.2225	1.2223	-0.0002
675	3	Biased	1.223	1.223	0
713	100	Unbiased	1.2251	1.2241	-0.001
744	50	Biased	1.2217	1.2212	-0.0005
799	50	Biased	1.2226	1.2224	-0.0002
842	30	Unbiased	1.2237	1.2229	-0.0008
889	3	Unbiased	1.2223	1.222	-0.0003
901	3	Biased	1.2228	1.2224	-0.0004
930	50	Unbiased	1.2244	1.2232	-0.0012
968	100	Unbiased	1.2246	1.2248	0.0002
976	100	Unbiased	1.2229	1.2222	-0.0007
981	3	Biased	1.2263	1.2262	-0.0001
1003	10	Biased	1.2256	1.2254	-0.0002
1039	3	Biased	1.2243	1.2241	-0.0002
1053	100	Biased	1.2233	1.2212	-0.0021
1056	0	Correlation	1.224	1.224	0
1072	10	Biased	1.223	1.2232	0.0002
1095	50	Unbiased	1.2235	1.2224	-0.0011
1099	0	Correlation	1.2239	1.2239	0
1113	3	Biased	1.2226	1.2225	-0.0001
1142	10	Unbiased	1.2233	1.2227	-0.0006
1154	10	Biased	1.2208	1.2209	0.0001
1215	50	Unbiased	1.2223	1.2225	0.0002
1222	100	Biased	1.2243	1.2227	-0.0016
1229	50	Unbiased	1.2238	1.2231	-0.0007
1255	3	Unbiased	1.2232	1.2231	-0.0001
1331	30	Unbiased	1.2242	1.2233	-0.0009
1359	30	Biased	1.2237	1.2228	-0.0009
1375	30	Unbiased	1.2236	1.223	-0.0006
1398	30	Biased	1.2242	1.2235	-0.0007
1411	50	Biased	1.2247	1.223	-0.0017
1465	10	Unbiased	1.2214	1.2213	-0.0001
1474	50	Biased	1.2243	1.2223	-0.002
1504	50	Biased	1.2192	1.2181	-0.0011
1540	100	Biased	1.2263	1.2257	-0.0006
1554	3	Unbiased	1.2233	1.2232	-0.0001
1662	30	Biased	1.225	1.2248	-0.0002
1679	10	Biased	1.2249	1.2249	0
1697	10	Biased	1.2237	1.2237	0
1703	30	Biased	1.2257	1.2253	-0.0004
1704	10	Unbiased	1.2235	1.2232	-0.0003
1736	30	Biased	1.2247	1.2243	-0.0004
1737	0	Correlation	1.2236	1.2236	0
1748	0	Correlation	1.2222	1.222	-0.0002

Test Statistics (V)

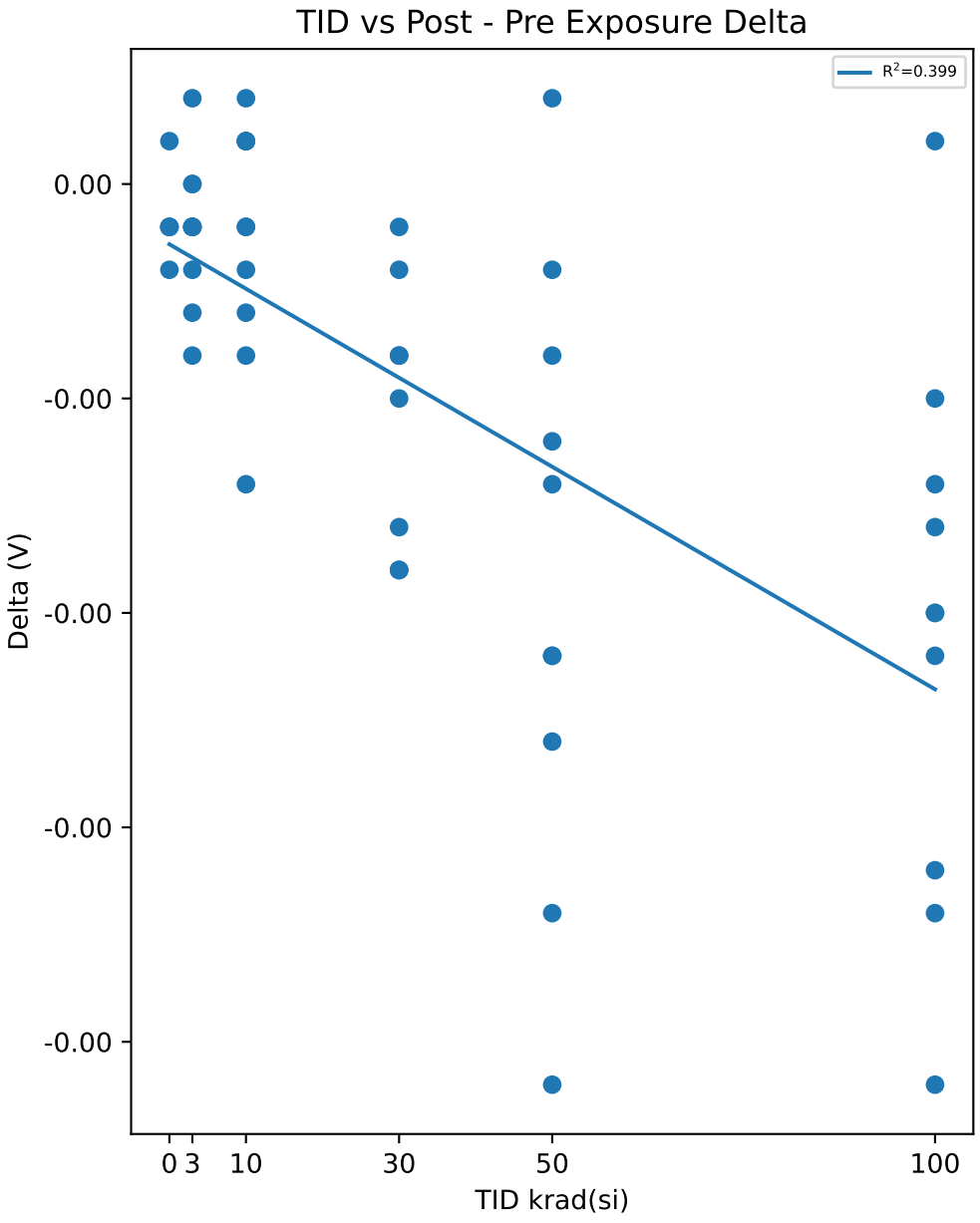
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.2222	1.2234	1.224	0.0007225	1.222	1.2234	1.224	0.00080808	-0.0002	-6e-05	0	8.9443e-05
3	1.2223	1.2236	1.2263	0.001315	1.222	1.2235	1.2262	0.0013598	-0.0004	-0.00011	0.0002	0.00016633
10	1.2208	1.2233	1.2256	0.0015026	1.2209	1.2232	1.2254	0.0014505	-0.0006	-0.00015	0.0002	0.00024152
30	1.2236	1.2247	1.2276	0.001285	1.2228	1.2242	1.2275	0.0015347	-0.0009	-0.00055556	-0.0001	0.00029627
50	1.2192	1.2231	1.2247	0.0016794	1.2181	1.2222	1.2233	0.0015501	-0.002	-0.00091	0.0002	0.00066072
100	1.2218	1.224	1.2263	0.0013201	1.2211	1.223	1.2257	0.0015574	-0.0021	-0.00105	0.0002	0.00065532

Device Test: 21.13 VOLTAGE|VREF/VREF/12/12/0/1000/5/100kHz//@V_REFCAP

TID vs Result Stats



TID vs Post - Pre Exposure Delta



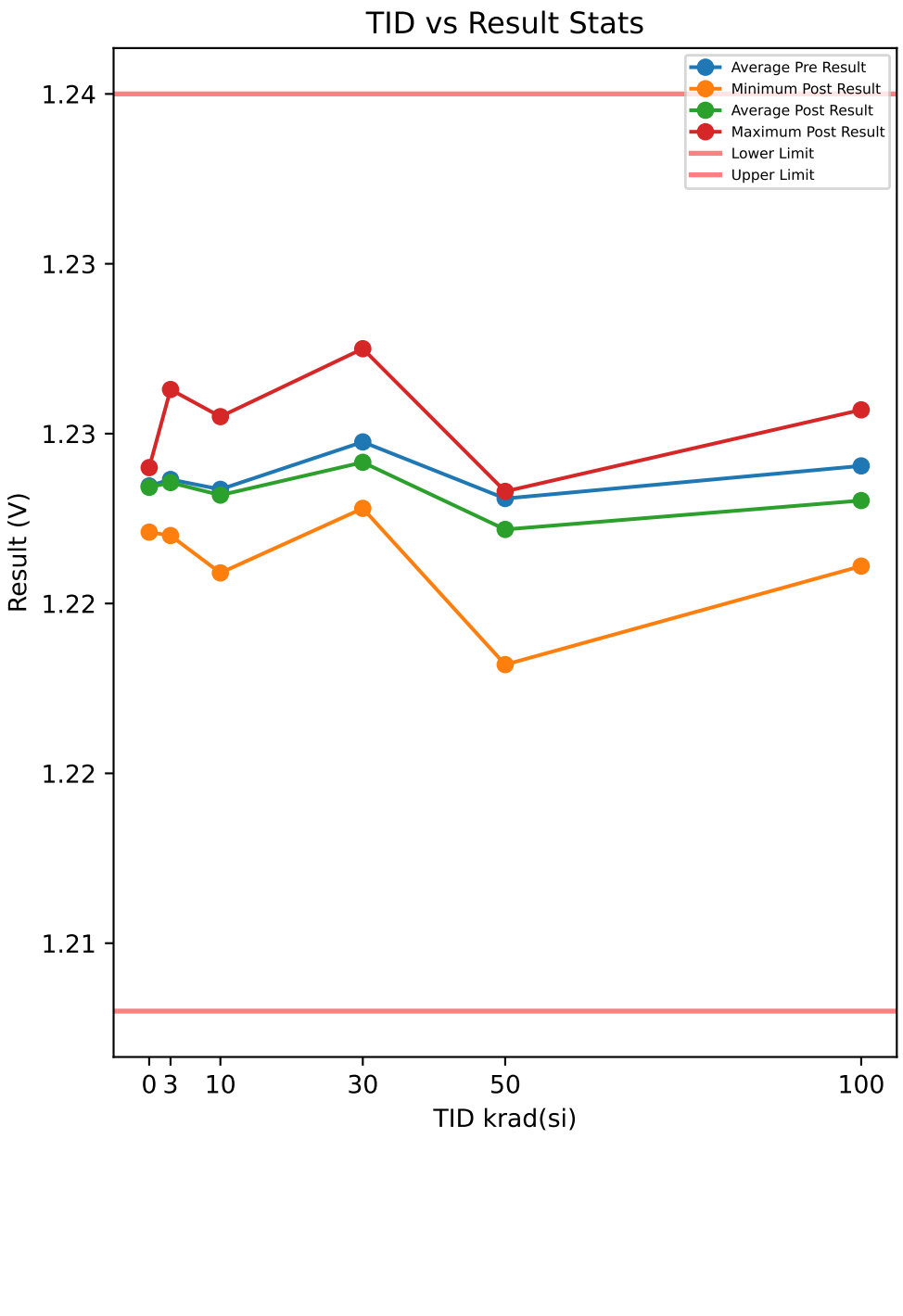
Test Results (Lower Limit = 1.208, Upper Limit = 1.235 (V))

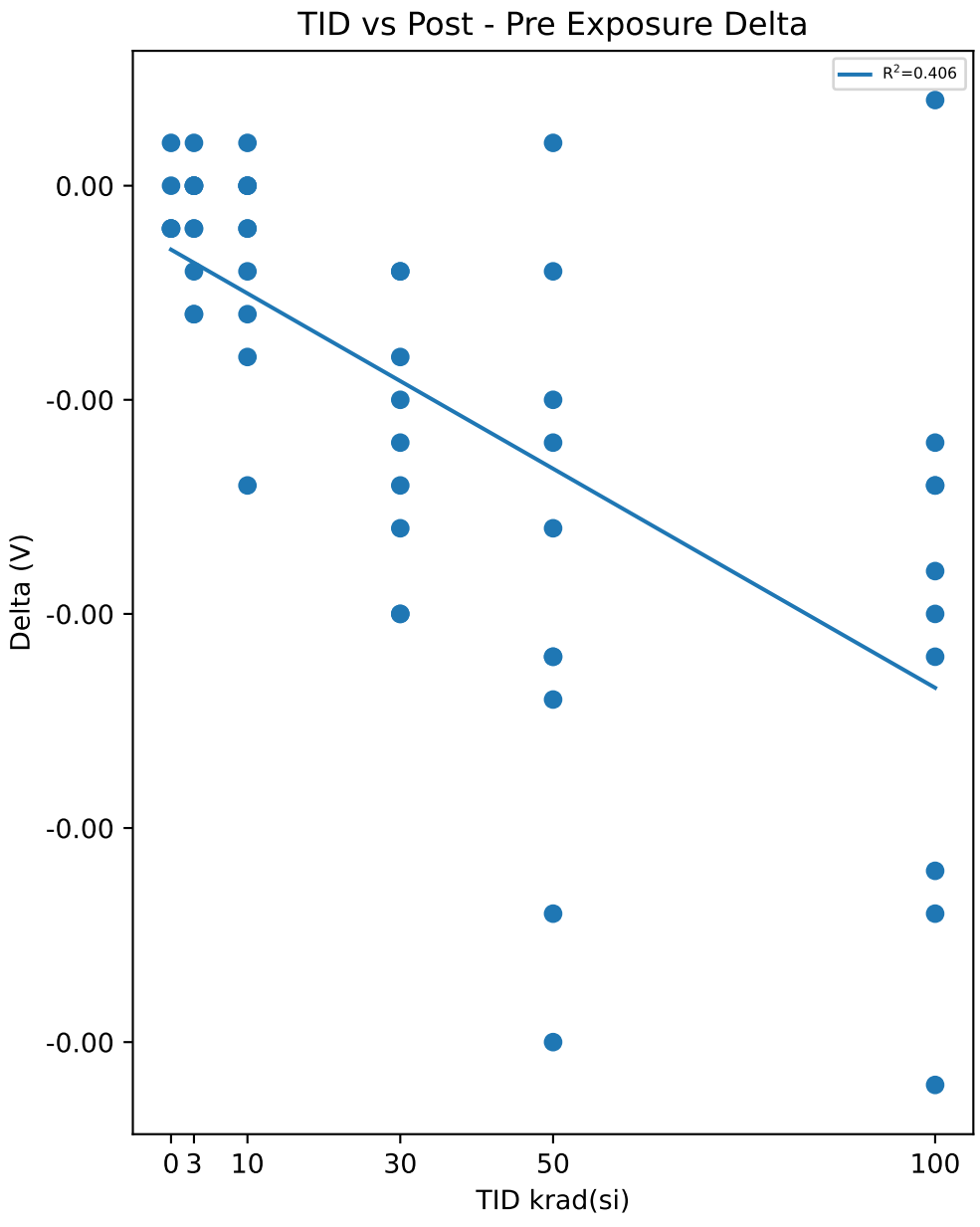
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	1.224	1.2233	-0.0007
411	100	Unbiased	1.2239	1.2223	-0.0016
444	30	Unbiased	1.2276	1.2275	-0.0001
454	10	Unbiased	1.2246	1.2242	-0.0004
491	3	Unbiased	1.2255	1.2255	0
500	100	Unbiased	1.2218	1.221	-0.0008
534	100	Biased	1.223	1.222	-0.001
558	0	Correlation	1.2234	1.2233	-0.0001
563	100	Biased	1.2251	1.224	-0.0011
570	3	Unbiased	1.2231	1.2233	0.0002
614	10	Unbiased	1.2225	1.2223	-0.0002
675	3	Biased	1.223	1.223	0
713	100	Unbiased	1.2251	1.2241	-0.001
744	50	Biased	1.2216	1.2212	-0.0004
799	50	Biased	1.2226	1.2224	-0.0002
842	30	Unbiased	1.2237	1.2228	-0.0009
889	3	Unbiased	1.2223	1.222	-0.0003
901	3	Biased	1.2228	1.2224	-0.0004
930	50	Unbiased	1.2244	1.2231	-0.0013
968	100	Unbiased	1.2246	1.2247	0.0001
976	100	Unbiased	1.2229	1.2222	-0.0007
981	3	Biased	1.2263	1.2262	-0.0001
1003	10	Biased	1.2256	1.2255	-0.0001
1039	3	Biased	1.2243	1.2241	-0.0002
1053	100	Biased	1.2233	1.2212	-0.0021
1056	0	Correlation	1.2241	1.224	-0.0001
1072	10	Biased	1.223	1.2232	0.0002
1095	50	Unbiased	1.2235	1.2224	-0.0011
1099	0	Correlation	1.2239	1.224	0.0001
1113	3	Biased	1.2226	1.2225	-0.0001
1142	10	Unbiased	1.2234	1.2227	-0.0007
1154	10	Biased	1.2208	1.2209	0.0001
1215	50	Unbiased	1.2223	1.2225	0.0002
1222	100	Biased	1.2244	1.2227	-0.0017
1229	50	Unbiased	1.2237	1.2231	-0.0006
1255	3	Unbiased	1.2232	1.2231	-0.0001
1331	30	Unbiased	1.2242	1.2233	-0.0009
1359	30	Biased	1.2237	1.2228	-0.0009
1375	30	Unbiased	1.2235	1.223	-0.0005
1398	30	Biased	1.2242	1.2234	-0.0008
1411	50	Biased	1.2247	1.223	-0.0017
1465	10	Unbiased	1.2214	1.2213	-0.0001
1474	50	Biased	1.2244	1.2223	-0.0021
1504	50	Biased	1.2192	1.2181	-0.0011
1540	100	Biased	1.2262	1.2257	-0.0005
1554	3	Unbiased	1.2233	1.2232	-0.0001
1662	30	Biased	1.225	1.2248	-0.0002
1679	10	Biased	1.2249	1.225	0.0001
1697	10	Biased	1.2237	1.2238	0.0001
1703	30	Biased	1.2257	1.2253	-0.0004
1704	10	Unbiased	1.2235	1.2232	-0.0003
1736	30	Biased	1.2247	1.2243	-0.0004
1737	0	Correlation	1.2236	1.2235	-0.0001
1748	0	Correlation	1.2222	1.222	-0.0002

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.2222	1.2234	1.2241	0.00074364	1.222	1.2234	1.224	0.00082037	-0.0002	-8e-05	0.0001	0.00010954
3	1.2223	1.2236	1.2263	0.001315	1.222	1.2235	1.2262	0.0013598	-0.0004	-0.00011	0.0002	0.00016633
10	1.2208	1.2233	1.2256	0.0015027	1.2209	1.2232	1.2255	0.0014851	-0.0007	-0.00013	0.0002	0.00027909
30	1.2235	1.2247	1.2276	0.0012961	1.2228	1.2241	1.2275	0.0015508	-0.0009	-0.00056667	-0.0001	0.00031623
50	1.2192	1.223	1.2247	0.001686	1.2181	1.2221	1.2233	0.0015429	-0.0021	-0.0009	0.0002	0.00069921
100	1.2218	1.224	1.2262	0.0013047	1.221	1.223	1.2257	0.0015581	-0.0021	-0.00104	0.0001	0.00063631

Device Test: 21.15 VOLTAGE|VREF/VREF/14/14/0/1000/5/100kHz//@V_REFCAP





Test Results (Lower Limit = 1.208, Upper Limit = 1.235 (V))

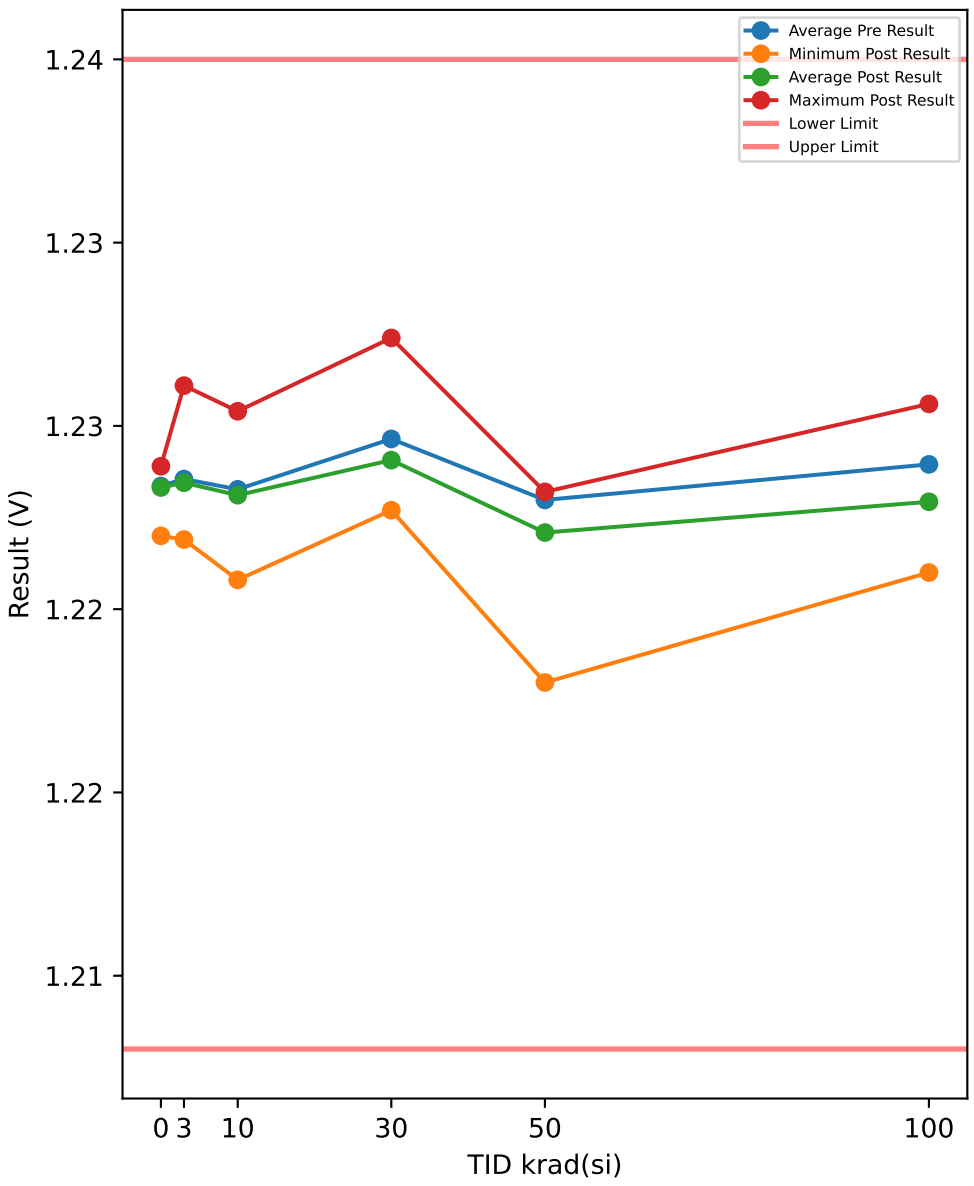
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	1.2241	1.2233	-0.0008
411	100	Unbiased	1.224	1.2223	-0.0017
444	30	Unbiased	1.2277	1.2275	-0.0002
454	10	Unbiased	1.2246	1.2242	-0.0004
491	3	Unbiased	1.2255	1.2255	0
500	100	Unbiased	1.2218	1.2211	-0.0007
534	100	Biased	1.223	1.222	-0.001
558	0	Correlation	1.2234	1.2234	0
563	100	Biased	1.2251	1.224	-0.0011
570	3	Unbiased	1.2232	1.2233	0.0001
614	10	Unbiased	1.2225	1.2223	-0.0002
675	3	Biased	1.223	1.223	0
713	100	Unbiased	1.2251	1.2242	-0.0009
744	50	Biased	1.2217	1.2212	-0.0005
799	50	Biased	1.2226	1.2224	-0.0002
842	30	Unbiased	1.2237	1.2229	-0.0008
889	3	Unbiased	1.2223	1.222	-0.0003
901	3	Biased	1.2228	1.2225	-0.0003
930	50	Unbiased	1.2244	1.2232	-0.0012
968	100	Unbiased	1.2246	1.2248	0.0002
976	100	Unbiased	1.2229	1.2222	-0.0007
981	3	Biased	1.2263	1.2263	0
1003	10	Biased	1.2256	1.2255	-0.0001
1039	3	Biased	1.2243	1.2241	-0.0002
1053	100	Biased	1.2233	1.2212	-0.0021
1056	0	Correlation	1.2241	1.224	-0.0001
1072	10	Biased	1.2231	1.2231	0
1095	50	Unbiased	1.2235	1.2224	-0.0011
1099	0	Correlation	1.2239	1.224	0.0001
1113	3	Biased	1.2226	1.2225	-0.0001
1142	10	Unbiased	1.2234	1.2227	-0.0007
1154	10	Biased	1.2209	1.2209	0
1215	50	Unbiased	1.2224	1.2225	0.0001
1222	100	Biased	1.2244	1.2228	-0.0016
1229	50	Unbiased	1.2238	1.2232	-0.0006
1255	3	Unbiased	1.2232	1.2231	-0.0001
1331	30	Unbiased	1.2243	1.2233	-0.001
1359	30	Biased	1.2238	1.2228	-0.001
1375	30	Unbiased	1.2236	1.223	-0.0006
1398	30	Biased	1.2242	1.2235	-0.0007
1411	50	Biased	1.2247	1.223	-0.0017
1465	10	Unbiased	1.2214	1.2213	-0.0001
1474	50	Biased	1.2244	1.2224	-0.002
1504	50	Biased	1.2193	1.2182	-0.0011
1540	100	Biased	1.2263	1.2257	-0.0006
1554	3	Unbiased	1.2233	1.2233	0
1662	30	Biased	1.225	1.2248	-0.0002
1679	10	Biased	1.2249	1.225	0.0001
1697	10	Biased	1.2237	1.2237	0
1703	30	Biased	1.2257	1.2253	-0.0004
1704	10	Unbiased	1.2235	1.2232	-0.0003
1736	30	Biased	1.2248	1.2243	-0.0005
1737	0	Correlation	1.2237	1.2236	-0.0001
1748	0	Correlation	1.2222	1.2221	-0.0001

Test Statistics (V)

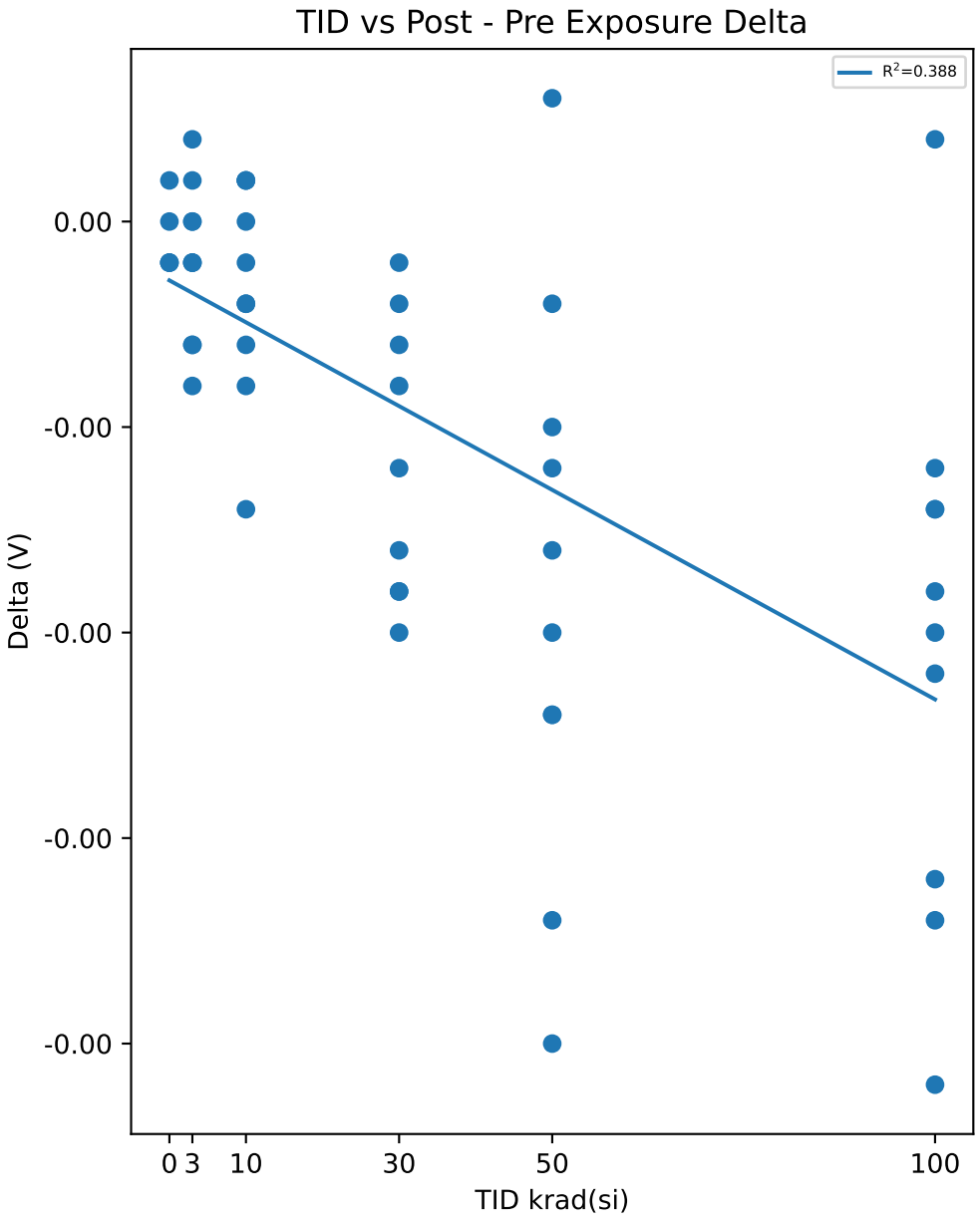
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.2222	1.2235	1.2241	0.00075033	1.2221	1.2234	1.224	0.0007823	-0.0001	-4e-05	0.0001	8.9443e-05
3	1.2223	1.2236	1.2263	0.0013109	1.222	1.2236	1.2263	0.0013705	-0.0003	-9e-05	0.0001	0.00013703
10	1.2209	1.2234	1.2256	0.0014819	1.2209	1.2232	1.2255	0.0014813	-0.0007	-0.00017	0.0001	0.0002406
30	1.2236	1.2248	1.2277	0.0012991	1.2228	1.2242	1.2275	0.0015347	-0.001	-0.0006	-0.0002	0.00030414
50	1.2193	1.2231	1.2247	0.0016576	1.2182	1.2222	1.2233	0.0015296	-0.002	-0.00091	0.0001	0.00064713
100	1.2218	1.2241	1.2263	0.0013227	1.2211	1.223	1.2257	0.0015628	-0.0021	-0.00102	0.0002	0.00065456

Device Test: 21.17 VOLTAGE|VREF/VREF/12/12/0/1000/5/500kHz//@V_REFCAP

TID vs Result Stats



TID vs Post - Pre Exposure Delta



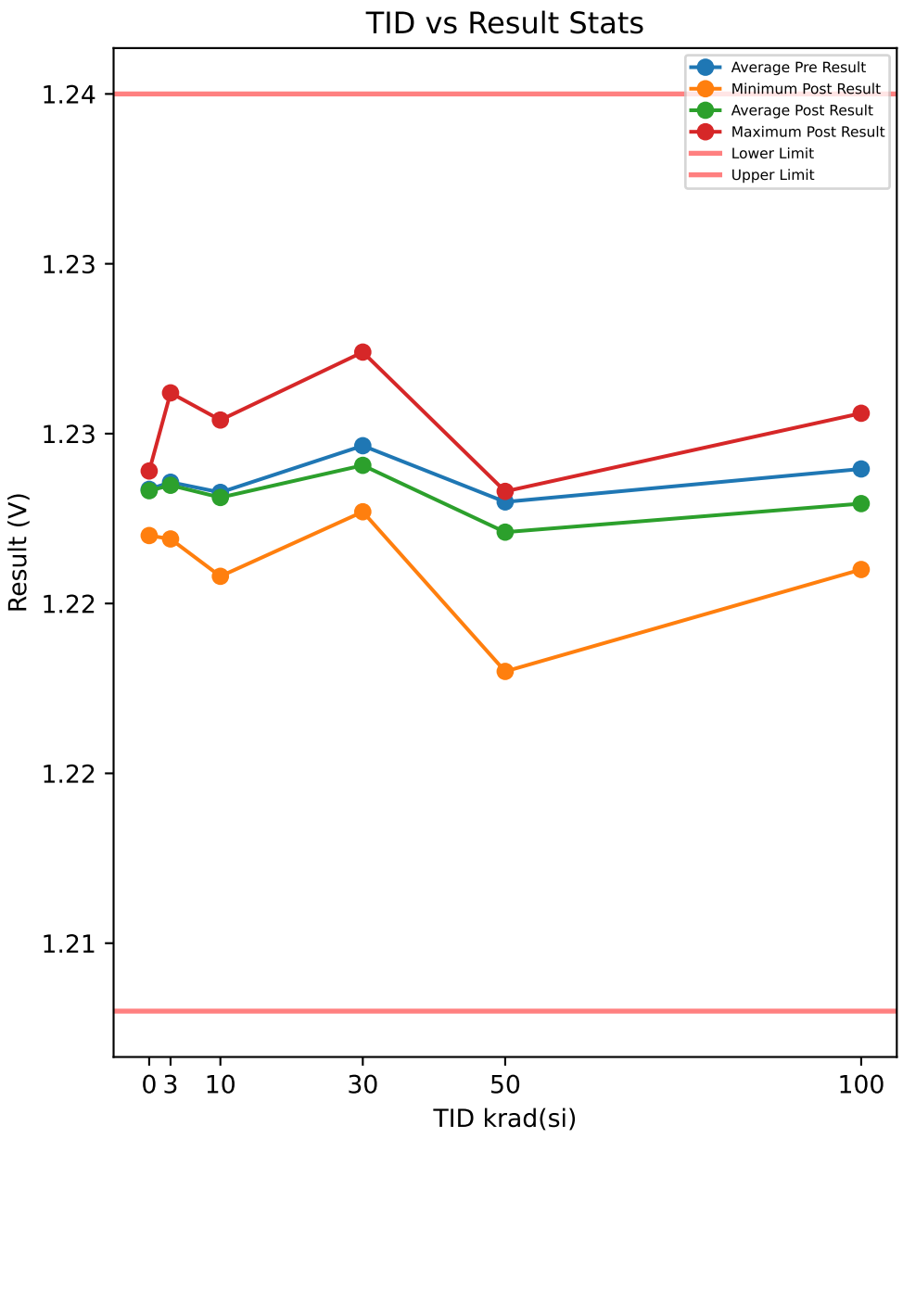
Test Results (Lower Limit = 1.208, Upper Limit = 1.235 (V))

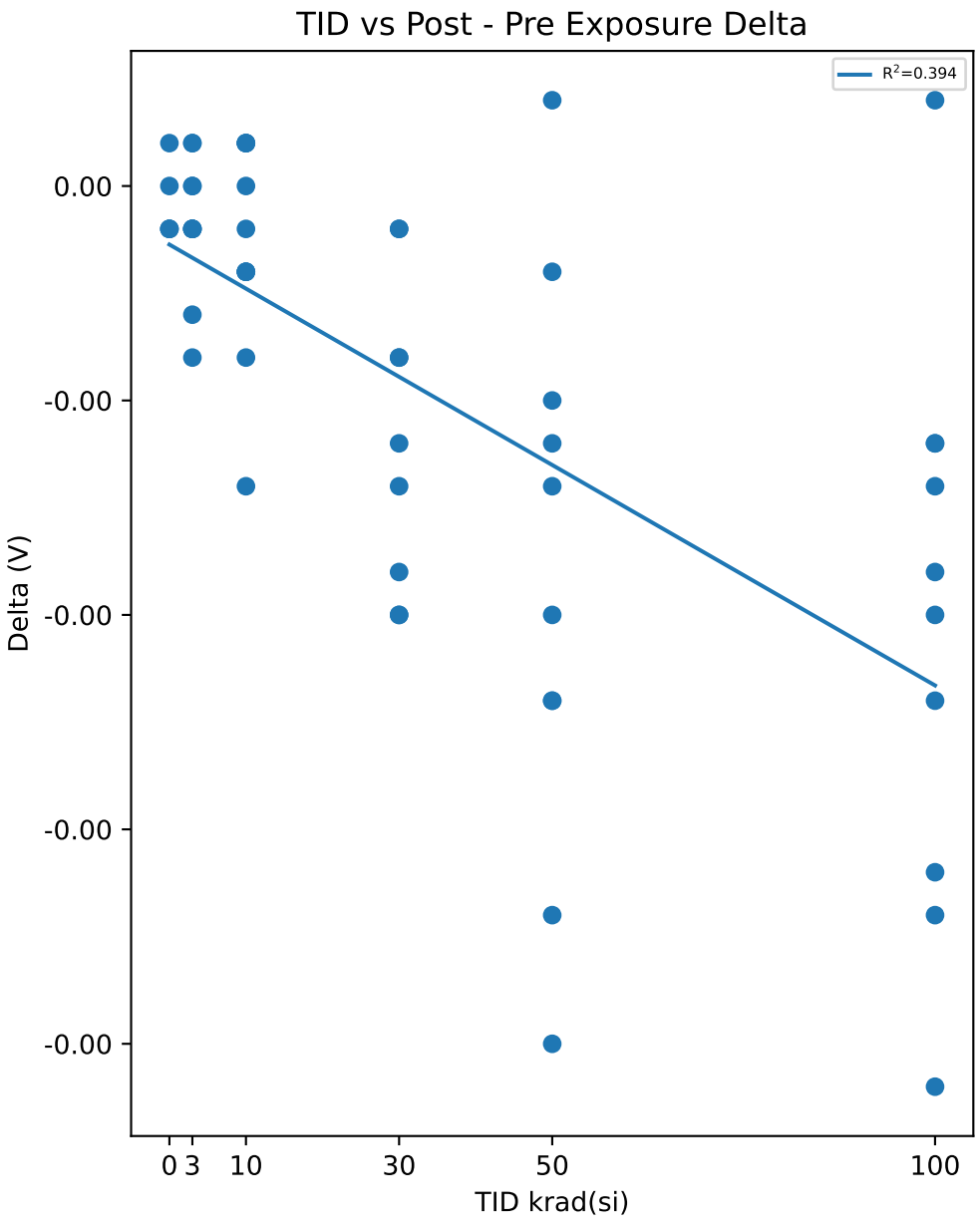
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	1.224	1.2232	-0.0008
411	100	Unbiased	1.2239	1.2222	-0.0017
444	30	Unbiased	1.2276	1.2274	-0.0002
454	10	Unbiased	1.2245	1.2241	-0.0004
491	3	Unbiased	1.2254	1.2254	0
500	100	Unbiased	1.2217	1.221	-0.0007
534	100	Biased	1.2229	1.2219	-0.001
558	0	Correlation	1.2233	1.2233	0
563	100	Biased	1.225	1.2239	-0.0011
570	3	Unbiased	1.223	1.2232	0.0002
614	10	Unbiased	1.2224	1.2222	-0.0002
675	3	Biased	1.2229	1.223	0.0001
713	100	Unbiased	1.225	1.2241	-0.0009
744	50	Biased	1.2216	1.2211	-0.0005
799	50	Biased	1.2225	1.2223	-0.0002
842	30	Unbiased	1.2237	1.2228	-0.0009
889	3	Unbiased	1.2222	1.2219	-0.0003
901	3	Biased	1.2227	1.2223	-0.0004
930	50	Unbiased	1.2243	1.2231	-0.0012
968	100	Unbiased	1.2245	1.2247	0.0002
976	100	Unbiased	1.2228	1.2221	-0.0007
981	3	Biased	1.2262	1.2261	-0.0001
1003	10	Biased	1.2255	1.2254	-0.0001
1039	3	Biased	1.2243	1.224	-0.0003
1053	100	Biased	1.2232	1.2211	-0.0021
1056	0	Correlation	1.224	1.2239	-0.0001
1072	10	Biased	1.223	1.2231	0.0001
1095	50	Unbiased	1.2234	1.2224	-0.001
1099	0	Correlation	1.2238	1.2239	0.0001
1113	3	Biased	1.2225	1.2224	-0.0001
1142	10	Unbiased	1.2233	1.2226	-0.0007
1154	10	Biased	1.2208	1.2208	0
1215	50	Unbiased	1.2222	1.2225	0.0003
1222	100	Biased	1.2243	1.2227	-0.0016
1229	50	Unbiased	1.2237	1.2231	-0.0006
1255	3	Unbiased	1.2231	1.223	-0.0001
1331	30	Unbiased	1.2242	1.2232	-0.001
1359	30	Biased	1.2236	1.2227	-0.0009
1375	30	Unbiased	1.2235	1.2229	-0.0006
1398	30	Biased	1.2241	1.2233	-0.0008
1411	50	Biased	1.2246	1.2229	-0.0017
1465	10	Unbiased	1.2214	1.2212	-0.0002
1474	50	Biased	1.2243	1.2223	-0.002
1504	50	Biased	1.2192	1.218	-0.0012
1540	100	Biased	1.2262	1.2256	-0.0006
1554	3	Unbiased	1.2232	1.2232	0
1662	30	Biased	1.2249	1.2248	-0.0001
1679	10	Biased	1.2248	1.2249	0.0001
1697	10	Biased	1.2236	1.2237	0.0001
1703	30	Biased	1.2256	1.2253	-0.0003
1704	10	Unbiased	1.2234	1.2231	-0.0003
1736	30	Biased	1.2246	1.2242	-0.0004
1737	0	Correlation	1.2236	1.2235	-0.0001
1748	0	Correlation	1.2221	1.222	-0.0001

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.2221	1.2234	1.224	0.00075033	1.222	1.2233	1.2239	0.0007823	-0.0001	-4e-05	0.0001	8.9443e-05
3	1.2222	1.2235	1.2262	0.001321	1.2219	1.2235	1.2261	0.0013534	-0.0004	-0.0001	0.0002	0.00018856
10	1.2208	1.2233	1.2255	0.0014675	1.2208	1.2231	1.2254	0.0014851	-0.0007	-0.00016	0.0001	0.00025906
30	1.2235	1.2246	1.2276	0.0012991	1.2227	1.2241	1.2274	0.0015556	-0.001	-0.00057778	-0.0001	0.0003383
50	1.2192	1.223	1.2246	0.0016625	1.218	1.2221	1.2232	0.0015631	-0.002	-0.00089	0.0003	0.00068548
100	1.2217	1.2239	1.2262	0.0013227	1.221	1.2229	1.2256	0.0015628	-0.0021	-0.00102	0.0002	0.00065456

Device Test: 21.19 VOLTAGE|VREF/VREF/14/14/0/1000/5/500kHz//@V_REFCAP





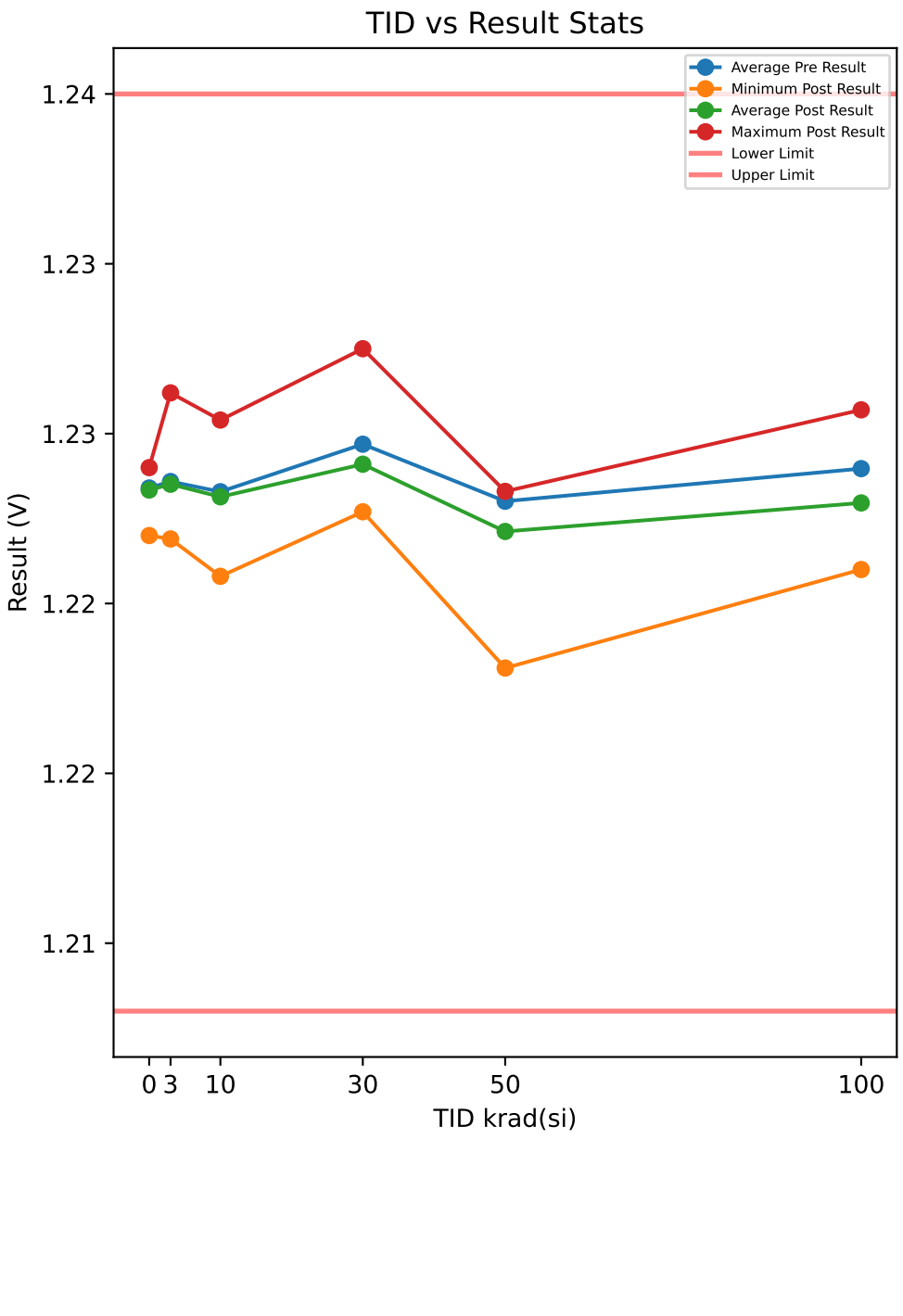
Test Results (Lower Limit = 1.208, Upper Limit = 1.235 (V))

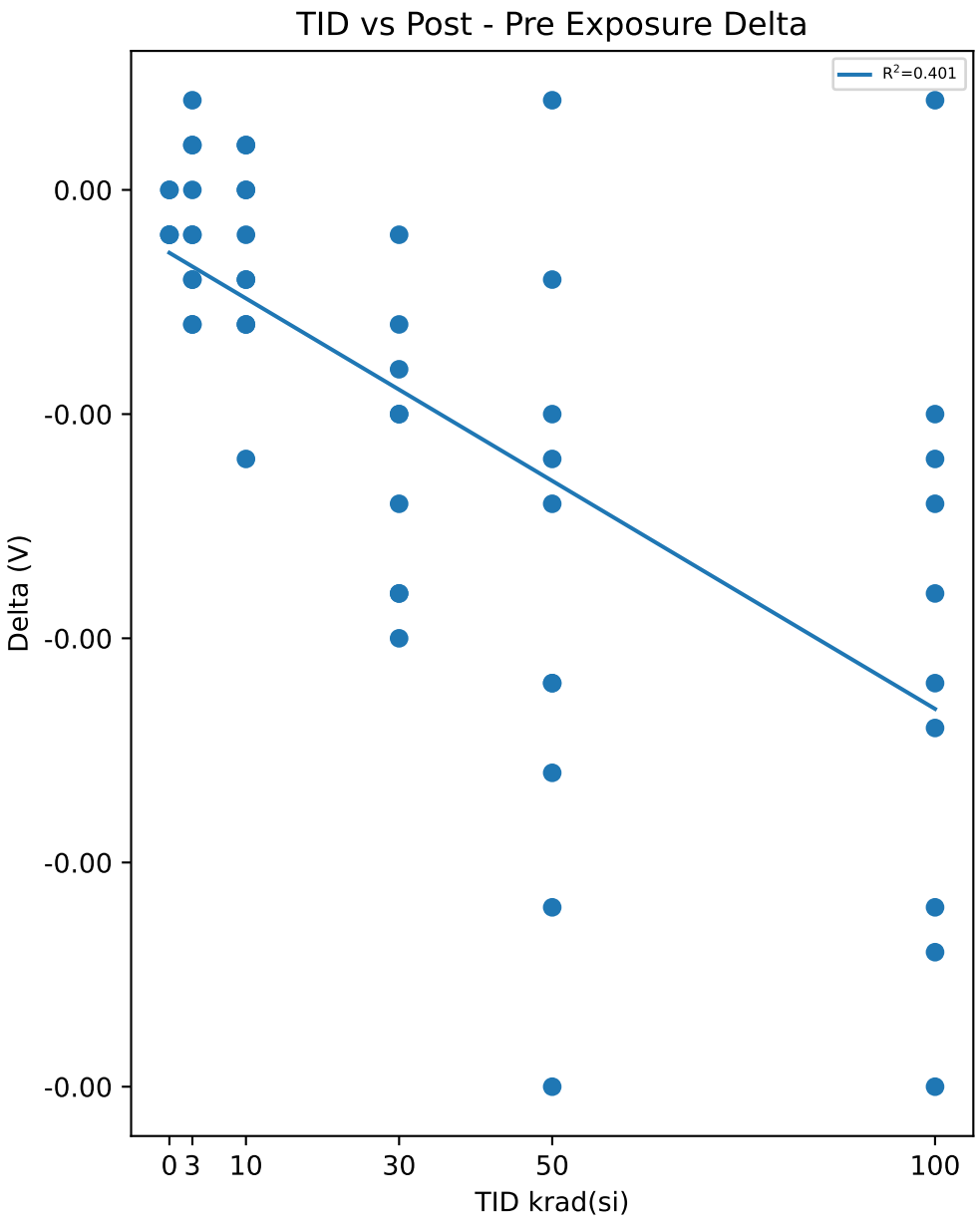
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	1.224	1.2233	-0.0007
411	100	Unbiased	1.2239	1.2222	-0.0017
444	30	Unbiased	1.2275	1.2274	-0.0001
454	10	Unbiased	1.2245	1.2241	-0.0004
491	3	Unbiased	1.2254	1.2254	0
500	100	Unbiased	1.2217	1.221	-0.0007
534	100	Biased	1.2229	1.2219	-0.001
558	0	Correlation	1.2233	1.2233	0
563	100	Biased	1.2251	1.2239	-0.0012
570	3	Unbiased	1.2231	1.2232	0.0001
614	10	Unbiased	1.2224	1.2222	-0.0002
675	3	Biased	1.2229	1.223	0.0001
713	100	Unbiased	1.225	1.2241	-0.0009
744	50	Biased	1.2216	1.2211	-0.0005
799	50	Biased	1.2225	1.2223	-0.0002
842	30	Unbiased	1.2237	1.2228	-0.0009
889	3	Unbiased	1.2222	1.2219	-0.0003
901	3	Biased	1.2228	1.2224	-0.0004
930	50	Unbiased	1.2243	1.2231	-0.0012
968	100	Unbiased	1.2245	1.2247	0.0002
976	100	Unbiased	1.2228	1.2222	-0.0006
981	3	Biased	1.2262	1.2262	0
1003	10	Biased	1.2255	1.2254	-0.0001
1039	3	Biased	1.2242	1.2241	-0.0001
1053	100	Biased	1.2232	1.2211	-0.0021
1056	0	Correlation	1.224	1.2239	-0.0001
1072	10	Biased	1.223	1.2231	0.0001
1095	50	Unbiased	1.2234	1.2224	-0.001
1099	0	Correlation	1.2238	1.2239	0.0001
1113	3	Biased	1.2225	1.2224	-0.0001
1142	10	Unbiased	1.2233	1.2226	-0.0007
1154	10	Biased	1.2208	1.2208	0
1215	50	Unbiased	1.2223	1.2225	0.0002
1222	100	Biased	1.2243	1.2227	-0.0016
1229	50	Unbiased	1.2237	1.2231	-0.0006
1255	3	Unbiased	1.2231	1.223	-0.0001
1331	30	Unbiased	1.2242	1.2232	-0.001
1359	30	Biased	1.2237	1.2227	-0.001
1375	30	Unbiased	1.2235	1.2229	-0.0006
1398	30	Biased	1.2241	1.2234	-0.0007
1411	50	Biased	1.2246	1.2229	-0.0017
1465	10	Unbiased	1.2214	1.2212	-0.0002
1474	50	Biased	1.2243	1.2223	-0.002
1504	50	Biased	1.2192	1.218	-0.0012
1540	100	Biased	1.2262	1.2256	-0.0006
1554	3	Unbiased	1.2233	1.2232	-0.0001
1662	30	Biased	1.2249	1.2248	-0.0001
1679	10	Biased	1.2248	1.2249	0.0001
1697	10	Biased	1.2236	1.2237	0.0001
1703	30	Biased	1.2256	1.2252	-0.0004
1704	10	Unbiased	1.2234	1.2232	-0.0002
1736	30	Biased	1.2246	1.2242	-0.0004
1737	0	Correlation	1.2236	1.2235	-0.0001
1748	0	Correlation	1.2221	1.222	-0.0001

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.2221	1.2234	1.224	0.00075033	1.222	1.2233	1.2239	0.0007823	-0.0001	-4e-05	0.0001	8.9443e-05
3	1.2222	1.2236	1.2262	0.0013013	1.2219	1.2235	1.2262	0.001371	-0.0004	-9e-05	0.0001	0.00015951
10	1.2208	1.2233	1.2255	0.0014675	1.2208	1.2231	1.2254	0.0014853	-0.0007	-0.00015	0.0001	0.00025495
30	1.2235	1.2246	1.2275	0.0012611	1.2227	1.2241	1.2274	0.0015403	-0.001	-0.00057778	-0.0001	0.00035277
50	1.2192	1.223	1.2246	0.0016576	1.218	1.2221	1.2233	0.0015713	-0.002	-0.00089	0.0002	0.00066908
100	1.2217	1.224	1.2262	0.0013318	1.221	1.2229	1.2256	0.0015572	-0.0021	-0.00102	0.0002	0.00066299

Device Test: 21.23 VOLTAGE|VREF/VREF/8/8/0/0/5/100kHz//@V_REFCAP





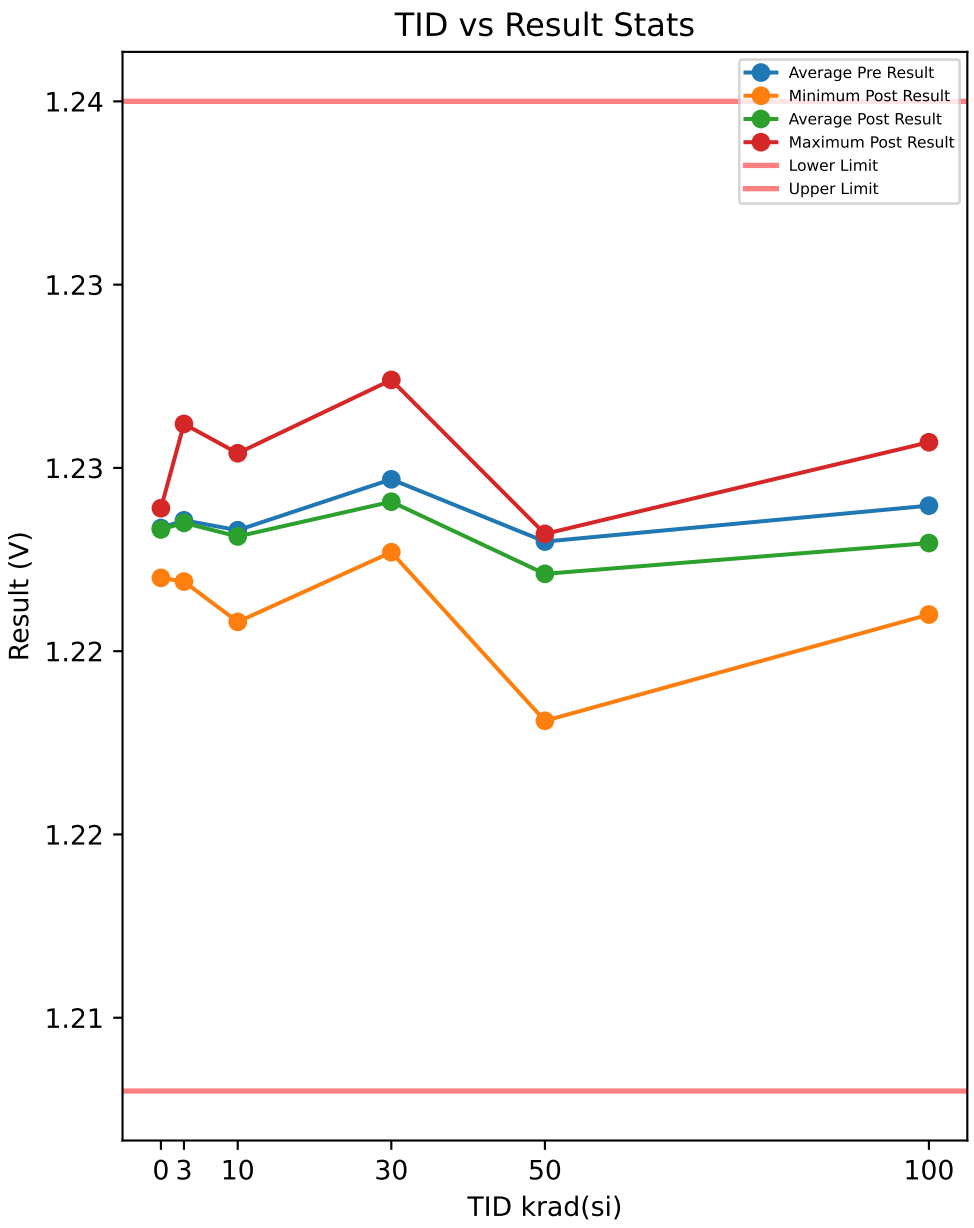
Test Results (Lower Limit = 1.208, Upper Limit = 1.235 (V))

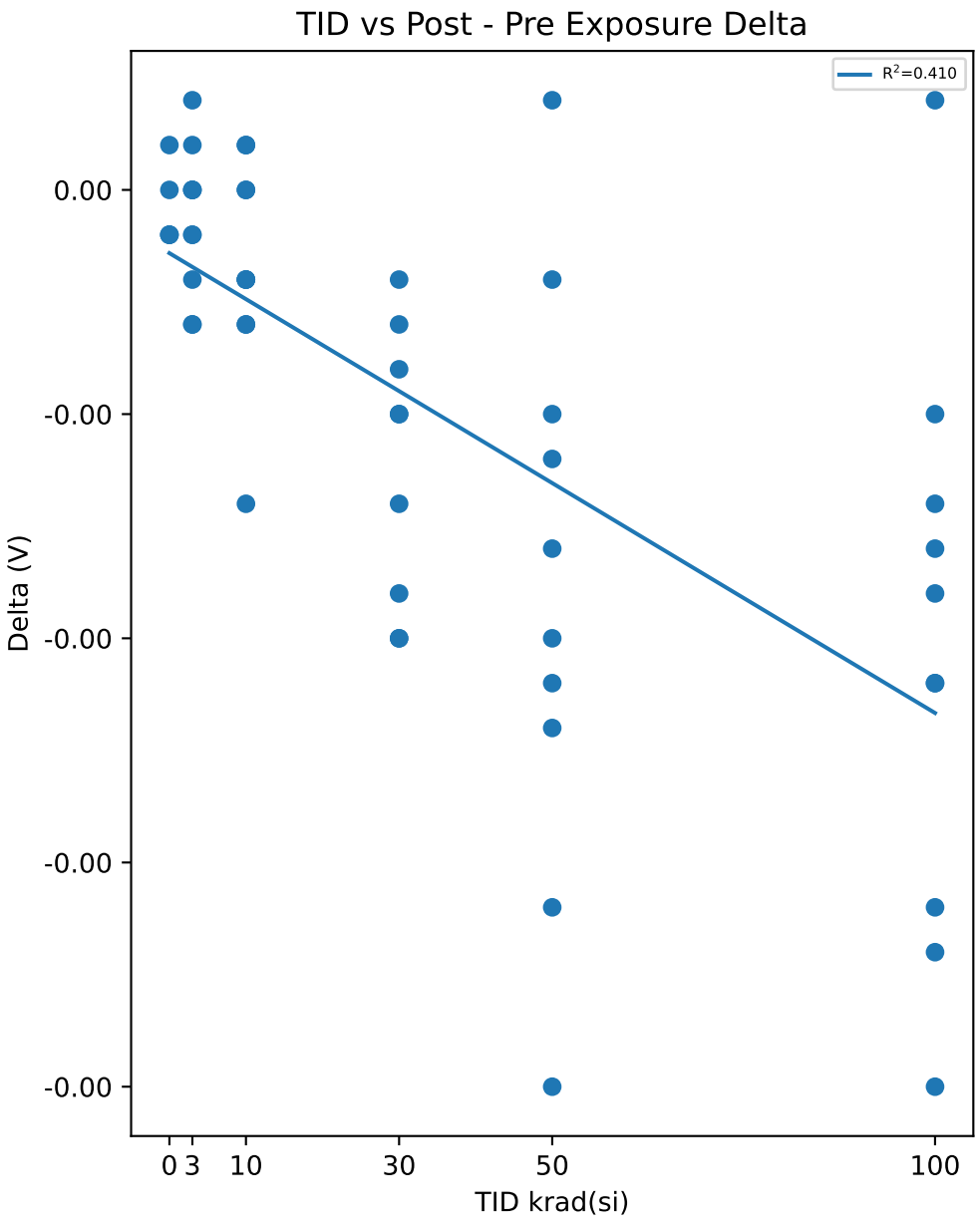
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	1.224	1.2233	-0.0007
411	100	Unbiased	1.2239	1.2222	-0.0017
444	30	Unbiased	1.2276	1.2275	-0.0001
454	10	Unbiased	1.2245	1.2242	-0.0003
491	3	Unbiased	1.2254	1.2255	0.0001
500	100	Unbiased	1.2217	1.221	-0.0007
534	100	Biased	1.223	1.2219	-0.0011
558	0	Correlation	1.2234	1.2233	-0.0001
563	100	Biased	1.2251	1.2239	-0.0012
570	3	Unbiased	1.2231	1.2233	0.0002
614	10	Unbiased	1.2225	1.2223	-0.0002
675	3	Biased	1.2229	1.223	0.0001
713	100	Unbiased	1.225	1.2241	-0.0009
744	50	Biased	1.2216	1.2211	-0.0005
799	50	Biased	1.2225	1.2223	-0.0002
842	30	Unbiased	1.2237	1.2228	-0.0009
889	3	Unbiased	1.2222	1.2219	-0.0003
901	3	Biased	1.2227	1.2224	-0.0003
930	50	Unbiased	1.2244	1.2231	-0.0013
968	100	Unbiased	1.2245	1.2247	0.0002
976	100	Unbiased	1.2228	1.2222	-0.0006
981	3	Biased	1.2262	1.2262	0
1003	10	Biased	1.2255	1.2254	-0.0001
1039	3	Biased	1.2243	1.2241	-0.0002
1053	100	Biased	1.2232	1.2212	-0.002
1056	0	Correlation	1.224	1.224	0
1072	10	Biased	1.223	1.2231	0.0001
1095	50	Unbiased	1.2235	1.2224	-0.0011
1099	0	Correlation	1.2239	1.2239	0
1113	3	Biased	1.2226	1.2224	-0.0002
1142	10	Unbiased	1.2233	1.2227	-0.0006
1154	10	Biased	1.2208	1.2208	0
1215	50	Unbiased	1.2223	1.2225	0.0002
1222	100	Biased	1.2243	1.2227	-0.0016
1229	50	Unbiased	1.2237	1.2231	-0.0006
1255	3	Unbiased	1.2232	1.2231	-0.0001
1331	30	Unbiased	1.2242	1.2233	-0.0009
1359	30	Biased	1.2237	1.2227	-0.001
1375	30	Unbiased	1.2235	1.223	-0.0005
1398	30	Biased	1.2241	1.2234	-0.0007
1411	50	Biased	1.2246	1.223	-0.0016
1465	10	Unbiased	1.2214	1.2212	-0.0002
1474	50	Biased	1.2243	1.2223	-0.002
1504	50	Biased	1.2192	1.2181	-0.0011
1540	100	Biased	1.2262	1.2257	-0.0005
1554	3	Unbiased	1.2233	1.2232	-0.0001
1662	30	Biased	1.225	1.2247	-0.0003
1679	10	Biased	1.2249	1.2249	0
1697	10	Biased	1.2236	1.2237	0.0001
1703	30	Biased	1.2257	1.2253	-0.0004
1704	10	Unbiased	1.2234	1.2231	-0.0003
1736	30	Biased	1.2247	1.2242	-0.0005
1737	0	Correlation	1.2236	1.2235	-0.0001
1748	0	Correlation	1.2221	1.222	-0.0001

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.2221	1.2234	1.224	0.00076485	1.222	1.2233	1.224	0.00080187	-0.0001	-6e-05	0	5.4772e-05
3	1.2222	1.2236	1.2262	0.0013017	1.2219	1.2235	1.2262	0.0013812	-0.0003	-8e-05	0.0002	0.00017512
10	1.2208	1.2233	1.2255	0.0014731	1.2208	1.2231	1.2254	0.0014826	-0.0006	-0.00015	0.0001	0.00021731
30	1.2235	1.2247	1.2276	0.0013014	1.2227	1.2241	1.2275	0.0015556	-0.001	-0.00058889	-0.0001	0.00030596
50	1.2192	1.223	1.2246	0.0016696	1.2181	1.2221	1.2233	0.0015483	-0.002	-0.00089	0.0002	0.00066072
100	1.2217	1.224	1.2262	0.0013233	1.221	1.223	1.2257	0.0015636	-0.002	-0.00101	0.0002	0.00065396

Device Test: 21.25 VOLTAGE|VREF/VREF/8/8/0/0/5/500kHz//@V_REFCAP





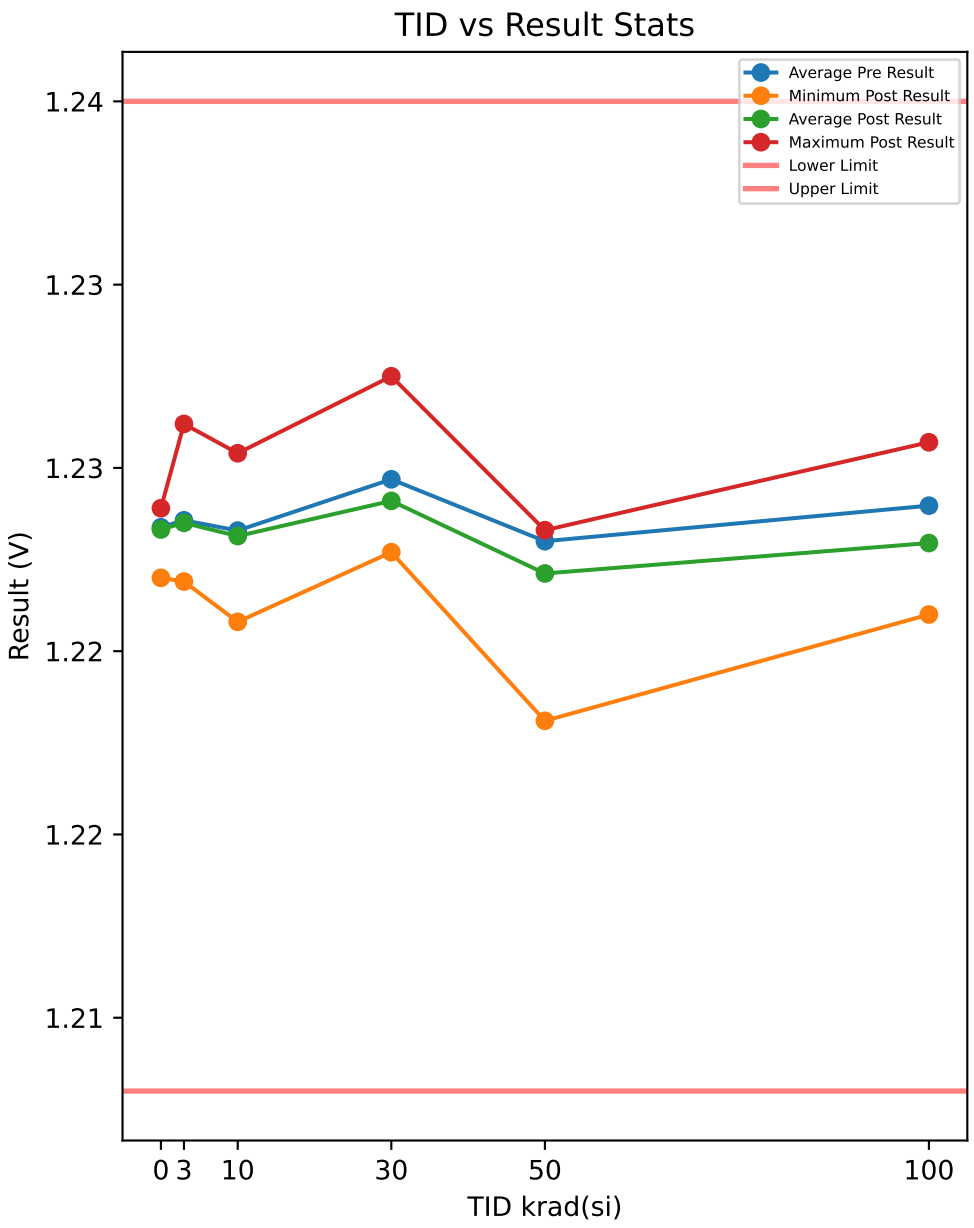
Test Results (Lower Limit = 1.208, Upper Limit = 1.235 (V))

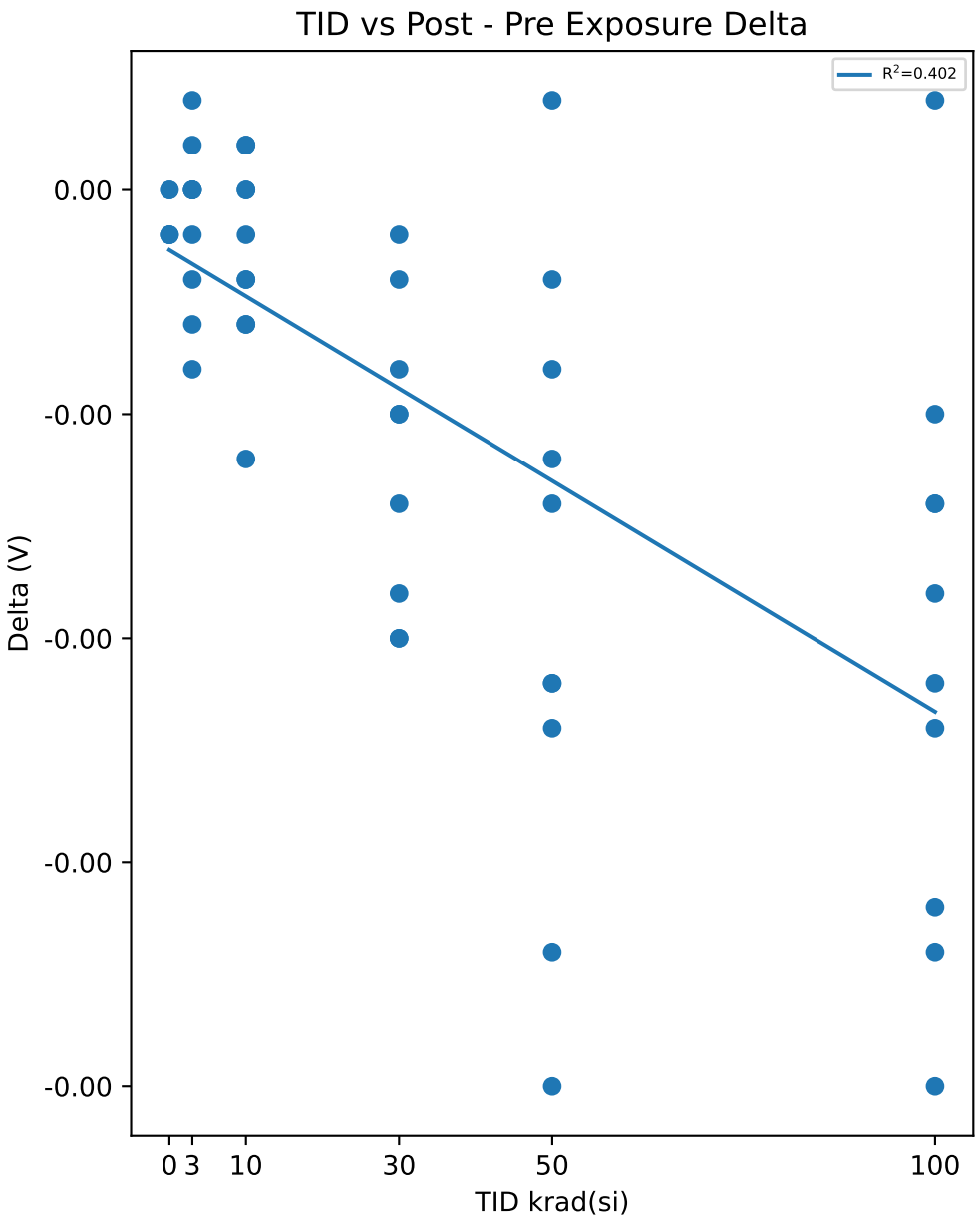
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	1.224	1.2232	-0.0008
411	100	Unbiased	1.2239	1.2222	-0.0017
444	30	Unbiased	1.2276	1.2274	-0.0002
454	10	Unbiased	1.2245	1.2242	-0.0003
491	3	Unbiased	1.2254	1.2254	0
500	100	Unbiased	1.2218	1.221	-0.0008
534	100	Biased	1.223	1.2219	-0.0011
558	0	Correlation	1.2233	1.2233	0
563	100	Biased	1.225	1.2239	-0.0011
570	3	Unbiased	1.2231	1.2233	0.0002
614	10	Unbiased	1.2225	1.2223	-0.0002
675	3	Biased	1.2229	1.223	0.0001
713	100	Unbiased	1.225	1.2241	-0.0009
744	50	Biased	1.2216	1.2211	-0.0005
799	50	Biased	1.2225	1.2223	-0.0002
842	30	Unbiased	1.2237	1.2228	-0.0009
889	3	Unbiased	1.2222	1.2219	-0.0003
901	3	Biased	1.2227	1.2224	-0.0003
930	50	Unbiased	1.2243	1.2231	-0.0012
968	100	Unbiased	1.2245	1.2247	0.0002
976	100	Unbiased	1.2228	1.2221	-0.0007
981	3	Biased	1.2262	1.2262	0
1003	10	Biased	1.2256	1.2254	-0.0002
1039	3	Biased	1.2243	1.2241	-0.0002
1053	100	Biased	1.2232	1.2212	-0.002
1056	0	Correlation	1.224	1.2239	-0.0001
1072	10	Biased	1.223	1.2231	0.0001
1095	50	Unbiased	1.2234	1.2224	-0.001
1099	0	Correlation	1.2238	1.2239	0.0001
1113	3	Biased	1.2225	1.2224	-0.0001
1142	10	Unbiased	1.2233	1.2226	-0.0007
1154	10	Biased	1.2208	1.2208	0
1215	50	Unbiased	1.2223	1.2225	0.0002
1222	100	Biased	1.2243	1.2227	-0.0016
1229	50	Unbiased	1.2237	1.2231	-0.0006
1255	3	Unbiased	1.2231	1.2231	0
1331	30	Unbiased	1.2242	1.2232	-0.001
1359	30	Biased	1.2237	1.2227	-0.001
1375	30	Unbiased	1.2235	1.223	-0.0005
1398	30	Biased	1.2241	1.2234	-0.0007
1411	50	Biased	1.2246	1.223	-0.0016
1465	10	Unbiased	1.2214	1.2212	-0.0002
1474	50	Biased	1.2243	1.2223	-0.002
1504	50	Biased	1.2192	1.2181	-0.0011
1540	100	Biased	1.2262	1.2257	-0.0005
1554	3	Unbiased	1.2233	1.2232	-0.0001
1662	30	Biased	1.225	1.2247	-0.0003
1679	10	Biased	1.2249	1.2249	0
1697	10	Biased	1.2236	1.2237	0.0001
1703	30	Biased	1.2257	1.2253	-0.0004
1704	10	Unbiased	1.2234	1.2231	-0.0003
1736	30	Biased	1.2247	1.2242	-0.0005
1737	0	Correlation	1.2236	1.2235	-0.0001
1748	0	Correlation	1.2221	1.222	-0.0001

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.2221	1.2234	1.224	0.00075033	1.222	1.2233	1.2239	0.0007823	-0.0001	-4e-05	0.0001	8.9443e-05
3	1.2222	1.2236	1.2262	0.0013141	1.2219	1.2235	1.2262	0.0013654	-0.0003	-7e-05	0.0002	0.00016364
10	1.2208	1.2233	1.2256	0.00149	1.2208	1.2231	1.2254	0.0014863	-0.0007	-0.00017	0.0001	0.0002406
30	1.2235	1.2247	1.2276	0.0013014	1.2227	1.2241	1.2274	0.0015352	-0.001	-0.00061111	-0.0002	0.00030185
50	1.2192	1.223	1.2246	0.0016576	1.2181	1.2221	1.2232	0.0015402	-0.002	-0.00088	0.0002	0.00064944
100	1.2218	1.224	1.2262	0.0012953	1.221	1.2229	1.2257	0.0015693	-0.002	-0.00102	0.0002	0.00064083

Device Test: 21.27 VOLTAGE|VREF/VREF/8/8/0/1000/5/100kHz//@V_REFCAP





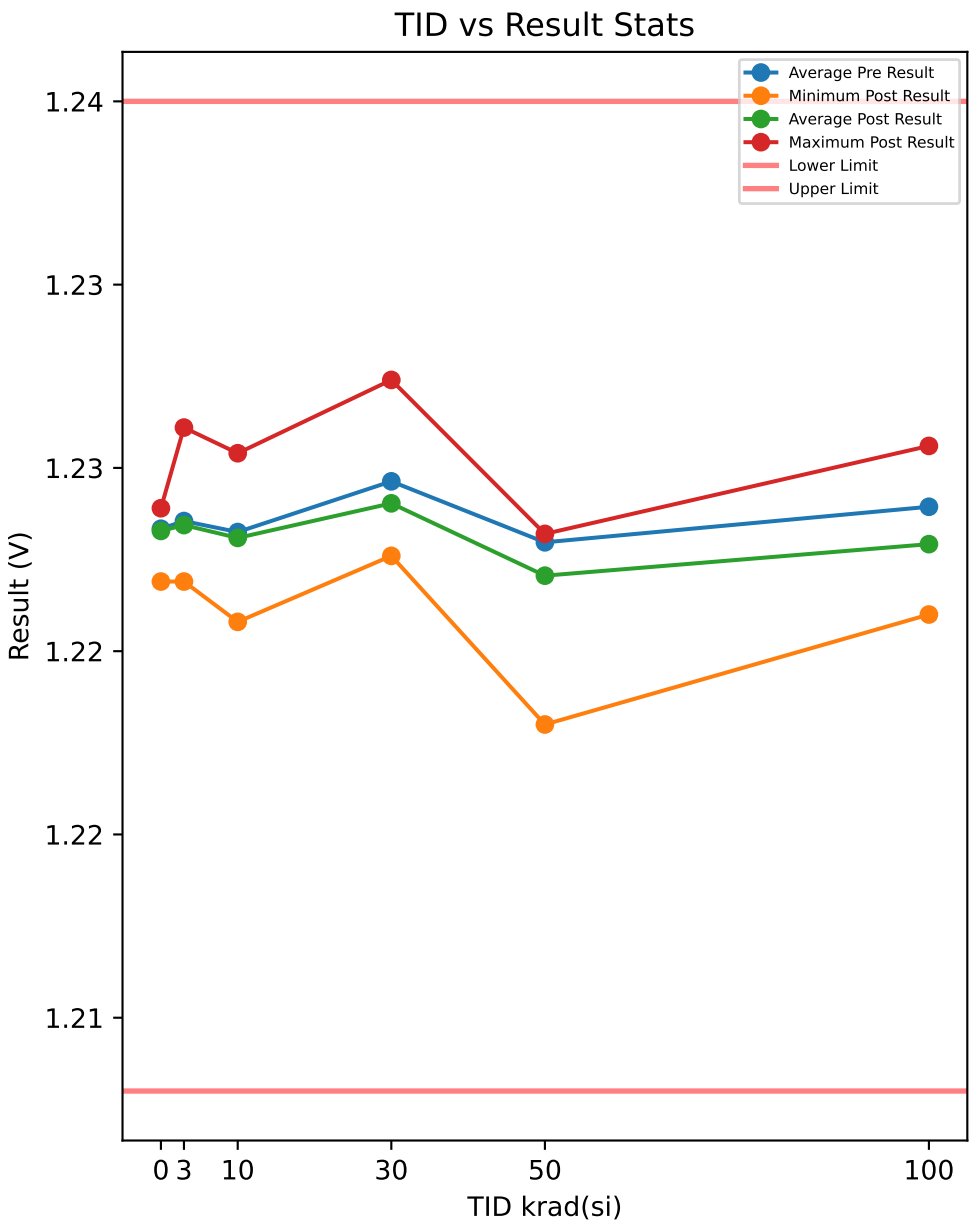
Test Results (Lower Limit = 1.208, Upper Limit = 1.235 (V))

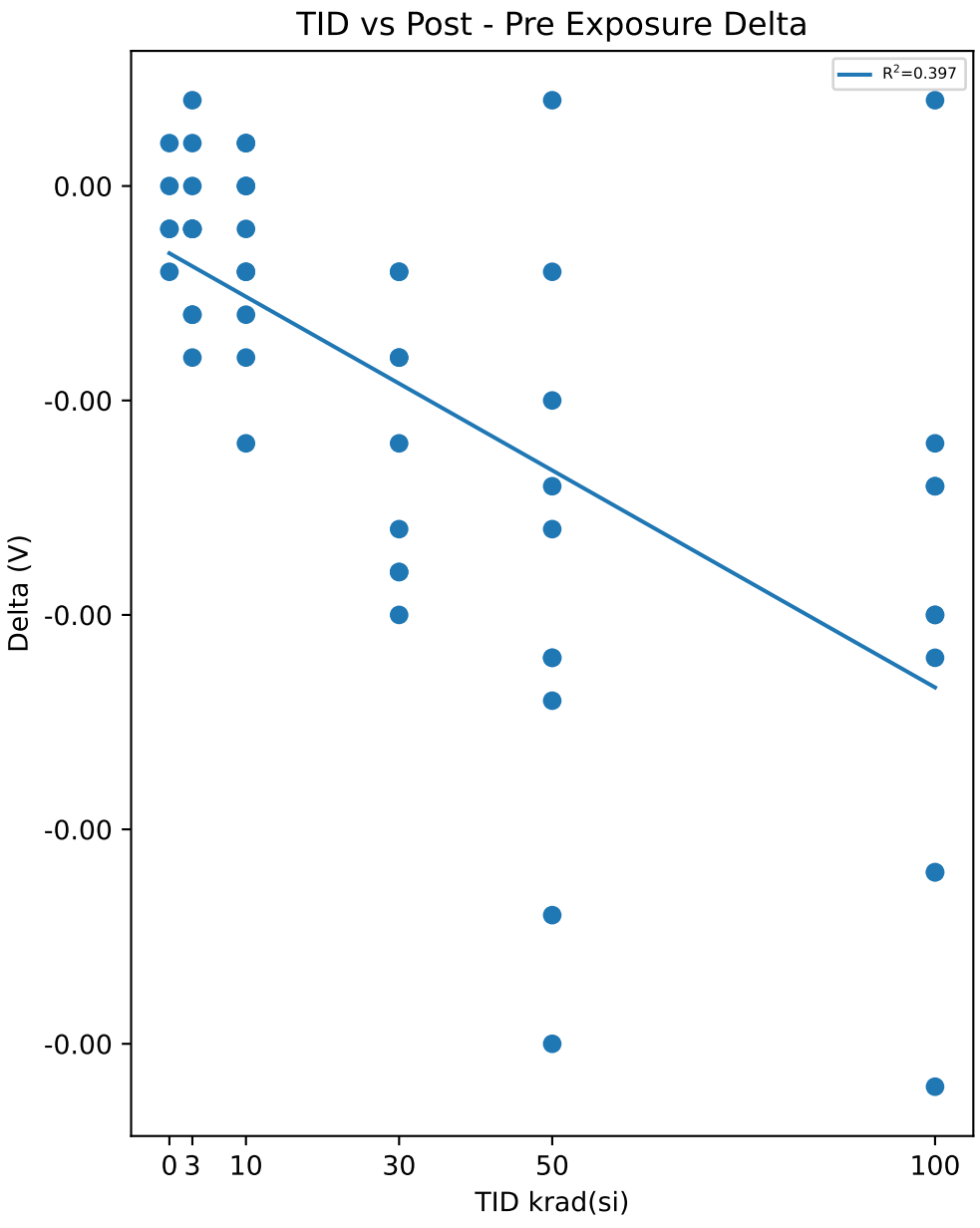
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	1.224	1.2233	-0.0007
411	100	Unbiased	1.2239	1.2222	-0.0017
444	30	Unbiased	1.2276	1.2275	-0.0001
454	10	Unbiased	1.2245	1.2242	-0.0003
491	3	Unbiased	1.2254	1.2254	0
500	100	Unbiased	1.2217	1.221	-0.0007
534	100	Biased	1.223	1.2219	-0.0011
558	0	Correlation	1.2233	1.2233	0
563	100	Biased	1.2251	1.2239	-0.0012
570	3	Unbiased	1.2231	1.2233	0.0002
614	10	Unbiased	1.2225	1.2223	-0.0002
675	3	Biased	1.2229	1.223	0.0001
713	100	Unbiased	1.225	1.2241	-0.0009
744	50	Biased	1.2216	1.2212	-0.0004
799	50	Biased	1.2225	1.2223	-0.0002
842	30	Unbiased	1.2237	1.2228	-0.0009
889	3	Unbiased	1.2222	1.2219	-0.0003
901	3	Biased	1.2228	1.2224	-0.0004
930	50	Unbiased	1.2243	1.2231	-0.0012
968	100	Unbiased	1.2245	1.2247	0.0002
976	100	Unbiased	1.2228	1.2221	-0.0007
981	3	Biased	1.2262	1.2262	0
1003	10	Biased	1.2255	1.2254	-0.0001
1039	3	Biased	1.2243	1.2241	-0.0002
1053	100	Biased	1.2232	1.2212	-0.002
1056	0	Correlation	1.224	1.2239	-0.0001
1072	10	Biased	1.223	1.2231	0.0001
1095	50	Unbiased	1.2235	1.2224	-0.0011
1099	0	Correlation	1.2239	1.2239	0
1113	3	Biased	1.2225	1.2224	-0.0001
1142	10	Unbiased	1.2233	1.2227	-0.0006
1154	10	Biased	1.2208	1.2208	0
1215	50	Unbiased	1.2223	1.2225	0.0002
1222	100	Biased	1.2243	1.2227	-0.0016
1229	50	Unbiased	1.2237	1.2231	-0.0006
1255	3	Unbiased	1.2231	1.2231	0
1331	30	Unbiased	1.2242	1.2232	-0.001
1359	30	Biased	1.2237	1.2227	-0.001
1375	30	Unbiased	1.2235	1.223	-0.0005
1398	30	Biased	1.2241	1.2234	-0.0007
1411	50	Biased	1.2246	1.2229	-0.0017
1465	10	Unbiased	1.2214	1.2212	-0.0002
1474	50	Biased	1.2243	1.2223	-0.002
1504	50	Biased	1.2192	1.2181	-0.0011
1540	100	Biased	1.2262	1.2257	-0.0005
1554	3	Unbiased	1.2232	1.2232	0
1662	30	Biased	1.225	1.2248	-0.0002
1679	10	Biased	1.2249	1.2249	0
1697	10	Biased	1.2236	1.2237	0.0001
1703	30	Biased	1.2257	1.2253	-0.0004
1704	10	Unbiased	1.2234	1.2231	-0.0003
1736	30	Biased	1.2247	1.2242	-0.0005
1737	0	Correlation	1.2236	1.2235	-0.0001
1748	0	Correlation	1.2221	1.222	-0.0001

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.2221	1.2234	1.224	0.00076616	1.222	1.2233	1.2239	0.0007823	-0.0001	-6e-05	0	5.4772e-05
3	1.2222	1.2236	1.2262	0.0013098	1.2219	1.2235	1.2262	0.0013654	-0.0004	-7e-05	0.0002	0.00018288
10	1.2208	1.2233	1.2255	0.0014731	1.2208	1.2231	1.2254	0.0014826	-0.0006	-0.00015	0.0001	0.00021731
30	1.2235	1.2247	1.2276	0.0013014	1.2227	1.2241	1.2275	0.0015676	-0.001	-0.00058889	-0.0001	0.00033333
50	1.2192	1.223	1.2246	0.0016607	1.2181	1.2221	1.2233	0.0015354	-0.002	-0.00088	0.0002	0.00067462
100	1.2217	1.224	1.2262	0.0013233	1.221	1.2229	1.2257	0.0015693	-0.002	-0.00102	0.0002	0.00064773

Device Test: 21.29 VOLTAGE|VREF/VREF/8/8/0/1000/5/500kHz//@V_REFCAP





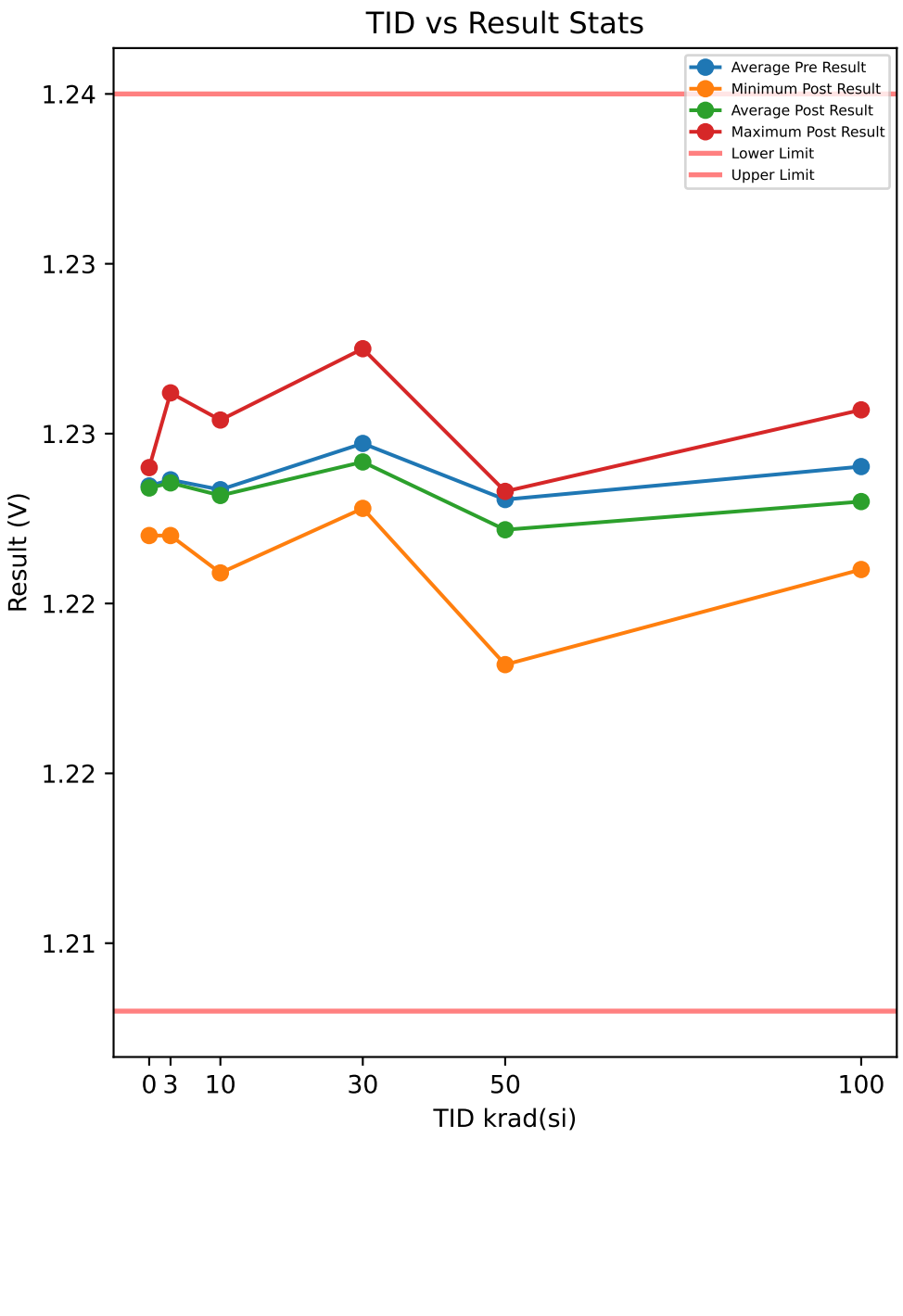
Test Results (Lower Limit = 1.208, Upper Limit = 1.235 (V))

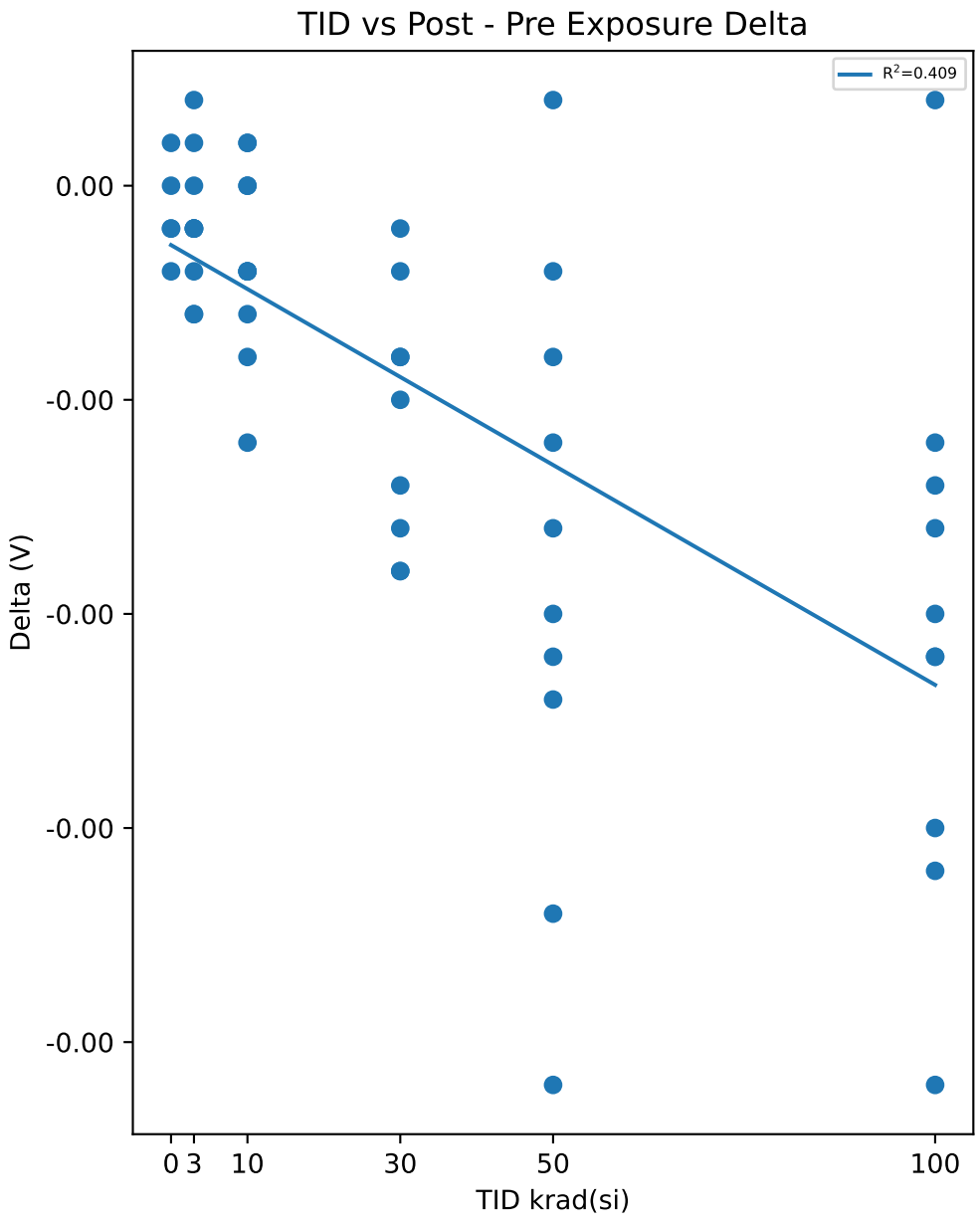
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	1.224	1.2232	-0.0008
411	100	Unbiased	1.2238	1.2222	-0.0016
444	30	Unbiased	1.2276	1.2274	-0.0002
454	10	Unbiased	1.2245	1.2241	-0.0004
491	3	Unbiased	1.2254	1.2254	0
500	100	Unbiased	1.2217	1.221	-0.0007
534	100	Biased	1.2229	1.2219	-0.001
558	0	Correlation	1.2233	1.2232	-0.0001
563	100	Biased	1.225	1.2239	-0.0011
570	3	Unbiased	1.223	1.2232	0.0002
614	10	Unbiased	1.2224	1.2222	-0.0002
675	3	Biased	1.2229	1.223	0.0001
713	100	Unbiased	1.225	1.224	-0.001
744	50	Biased	1.2216	1.2211	-0.0005
799	50	Biased	1.2225	1.2223	-0.0002
842	30	Unbiased	1.2237	1.2228	-0.0009
889	3	Unbiased	1.2222	1.2219	-0.0003
901	3	Biased	1.2227	1.2223	-0.0004
930	50	Unbiased	1.2243	1.2231	-0.0012
968	100	Unbiased	1.2245	1.2247	0.0002
976	100	Unbiased	1.2228	1.2221	-0.0007
981	3	Biased	1.2262	1.2261	-0.0001
1003	10	Biased	1.2255	1.2254	-0.0001
1039	3	Biased	1.2243	1.224	-0.0003
1053	100	Biased	1.2232	1.2211	-0.0021
1056	0	Correlation	1.224	1.2239	-0.0001
1072	10	Biased	1.223	1.2231	0.0001
1095	50	Unbiased	1.2234	1.2223	-0.0011
1099	0	Correlation	1.2238	1.2239	0.0001
1113	3	Biased	1.2225	1.2224	-0.0001
1142	10	Unbiased	1.2232	1.2226	-0.0006
1154	10	Biased	1.2207	1.2208	0.0001
1215	50	Unbiased	1.2222	1.2224	0.0002
1222	100	Biased	1.2243	1.2227	-0.0016
1229	50	Unbiased	1.2237	1.223	-0.0007
1255	3	Unbiased	1.2231	1.223	-0.0001
1331	30	Unbiased	1.2241	1.2232	-0.0009
1359	30	Biased	1.2236	1.2226	-0.001
1375	30	Unbiased	1.2235	1.2229	-0.0006
1398	30	Biased	1.2241	1.2233	-0.0008
1411	50	Biased	1.2246	1.2229	-0.0017
1465	10	Unbiased	1.2214	1.2212	-0.0002
1474	50	Biased	1.2243	1.2223	-0.002
1504	50	Biased	1.2191	1.218	-0.0011
1540	100	Biased	1.2262	1.2256	-0.0006
1554	3	Unbiased	1.2232	1.2231	-0.0001
1662	30	Biased	1.2249	1.2247	-0.0002
1679	10	Biased	1.2248	1.2248	0
1697	10	Biased	1.2236	1.2236	0
1703	30	Biased	1.2256	1.2252	-0.0004
1704	10	Unbiased	1.2234	1.2231	-0.0003
1736	30	Biased	1.2246	1.2242	-0.0004
1737	0	Correlation	1.2235	1.2235	0
1748	0	Correlation	1.2221	1.2219	-0.0002

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.2221	1.2233	1.224	0.00074364	1.2219	1.2233	1.2239	0.00082583	-0.0002	-6e-05	0.0001	0.00011402
3	1.2222	1.2235	1.2262	0.001321	1.2219	1.2234	1.2261	0.0013558	-0.0004	-0.00011	0.0002	0.00018529
10	1.2207	1.2232	1.2255	0.0014864	1.2208	1.2231	1.2254	0.0014678	-0.0006	-0.00016	0.0001	0.00022706
30	1.2235	1.2246	1.2276	0.0013038	1.2226	1.224	1.2274	0.0015516	-0.001	-0.0006	-0.0002	0.00031225
50	1.2191	1.223	1.2246	0.0016879	1.218	1.2221	1.2232	0.0015515	-0.002	-0.00091	0.0002	0.00066072
100	1.2217	1.2239	1.2262	0.0013235	1.221	1.2229	1.2256	0.0015548	-0.0021	-0.00102	0.0002	0.00064256

Device Test: 21.5 VOLTAGE|VREF/VREF/12/12/0/0/5/100kHz//@V_REFCAP





Test Results (Lower Limit = 1.208, Upper Limit = 1.235 (V))

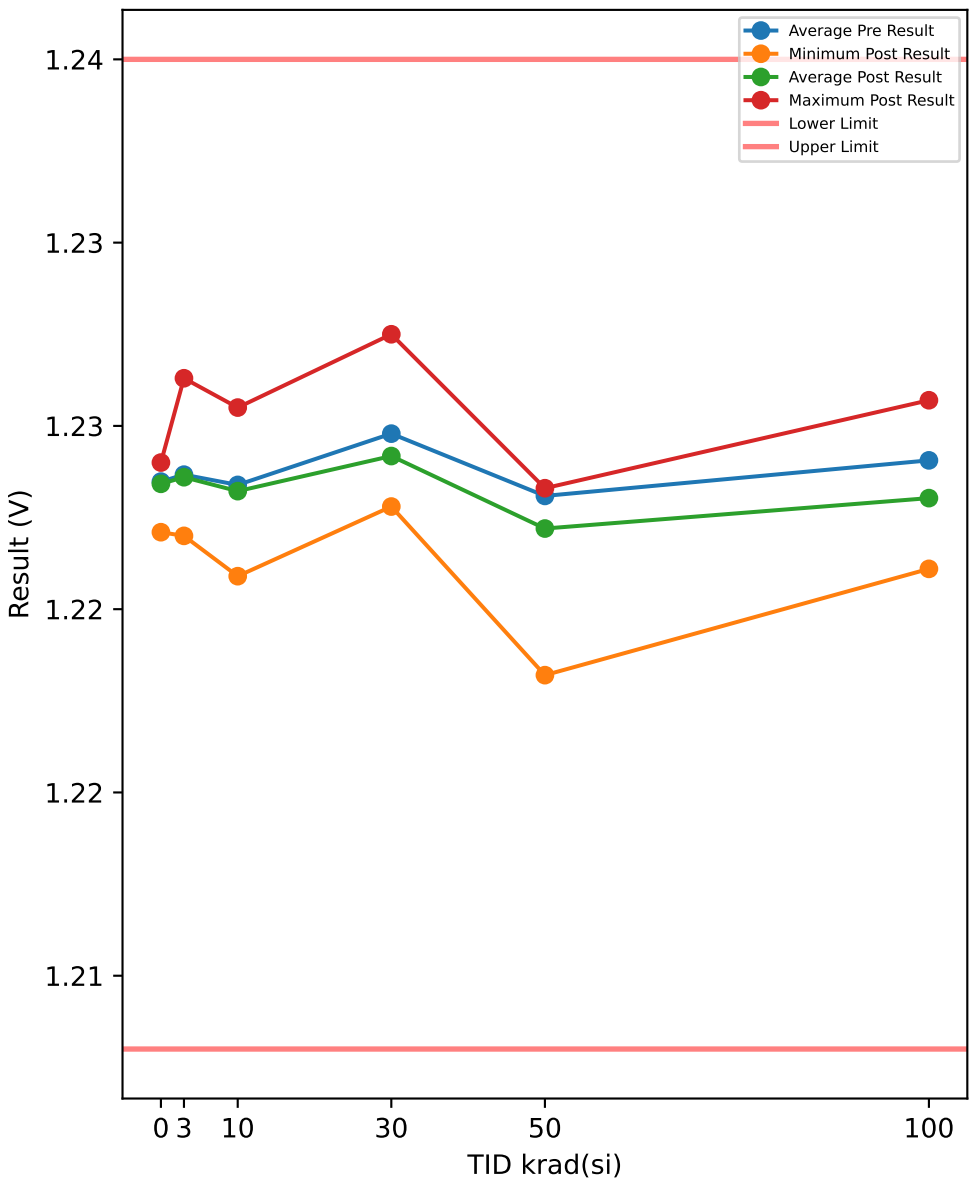
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	1.2241	1.2233	-0.0008
411	100	Unbiased	1.2239	1.2223	-0.0016
444	30	Unbiased	1.2276	1.2275	-0.0001
454	10	Unbiased	1.2246	1.2242	-0.0004
491	3	Unbiased	1.2255	1.2255	0
500	100	Unbiased	1.2218	1.221	-0.0008
534	100	Biased	1.223	1.2219	-0.0011
558	0	Correlation	1.2234	1.2234	0
563	100	Biased	1.2251	1.224	-0.0011
570	3	Unbiased	1.2231	1.2233	0.0002
614	10	Unbiased	1.2225	1.2223	-0.0002
675	3	Biased	1.223	1.2231	0.0001
713	100	Unbiased	1.2251	1.2241	-0.001
744	50	Biased	1.2216	1.2212	-0.0004
799	50	Biased	1.2226	1.2224	-0.0002
842	30	Unbiased	1.2237	1.2229	-0.0008
889	3	Unbiased	1.2223	1.222	-0.0003
901	3	Biased	1.2228	1.2225	-0.0003
930	50	Unbiased	1.2244	1.2232	-0.0012
968	100	Unbiased	1.2246	1.2248	0.0002
976	100	Unbiased	1.2229	1.2222	-0.0007
981	3	Biased	1.2263	1.2262	-0.0001
1003	10	Biased	1.2256	1.2254	-0.0002
1039	3	Biased	1.2243	1.2241	-0.0002
1053	100	Biased	1.2233	1.2212	-0.0021
1056	0	Correlation	1.2241	1.224	-0.0001
1072	10	Biased	1.2231	1.2232	0.0001
1095	50	Unbiased	1.2235	1.2224	-0.0011
1099	0	Correlation	1.2239	1.224	0.0001
1113	3	Biased	1.2226	1.2225	-0.0001
1142	10	Unbiased	1.2233	1.2227	-0.0006
1154	10	Biased	1.2208	1.2209	0.0001
1215	50	Unbiased	1.2223	1.2225	0.0002
1222	100	Biased	1.2243	1.2228	-0.0015
1229	50	Unbiased	1.2238	1.2232	-0.0006
1255	3	Unbiased	1.2232	1.2231	-0.0001
1331	30	Unbiased	1.2242	1.2233	-0.0009
1359	30	Biased	1.2237	1.2228	-0.0009
1375	30	Unbiased	1.2236	1.2231	-0.0005
1398	30	Biased	1.2242	1.2235	-0.0007
1411	50	Biased	1.2247	1.223	-0.0017
1465	10	Unbiased	1.2215	1.2213	-0.0002
1474	50	Biased	1.2244	1.2223	-0.0021
1504	50	Biased	1.2192	1.2182	-0.001
1540	100	Biased	1.2263	1.2257	-0.0006
1554	3	Unbiased	1.2233	1.2232	-0.0001
1662	30	Biased	1.225	1.2248	-0.0002
1679	10	Biased	1.2249	1.2249	0
1697	10	Biased	1.2237	1.2237	0
1703	30	Biased	1.2257	1.2253	-0.0004
1704	10	Unbiased	1.2235	1.2232	-0.0003
1736	30	Biased	1.2247	1.2243	-0.0004
1737	0	Correlation	1.2237	1.2236	-0.0001
1748	0	Correlation	1.2222	1.222	-0.0002

Test Statistics (V)

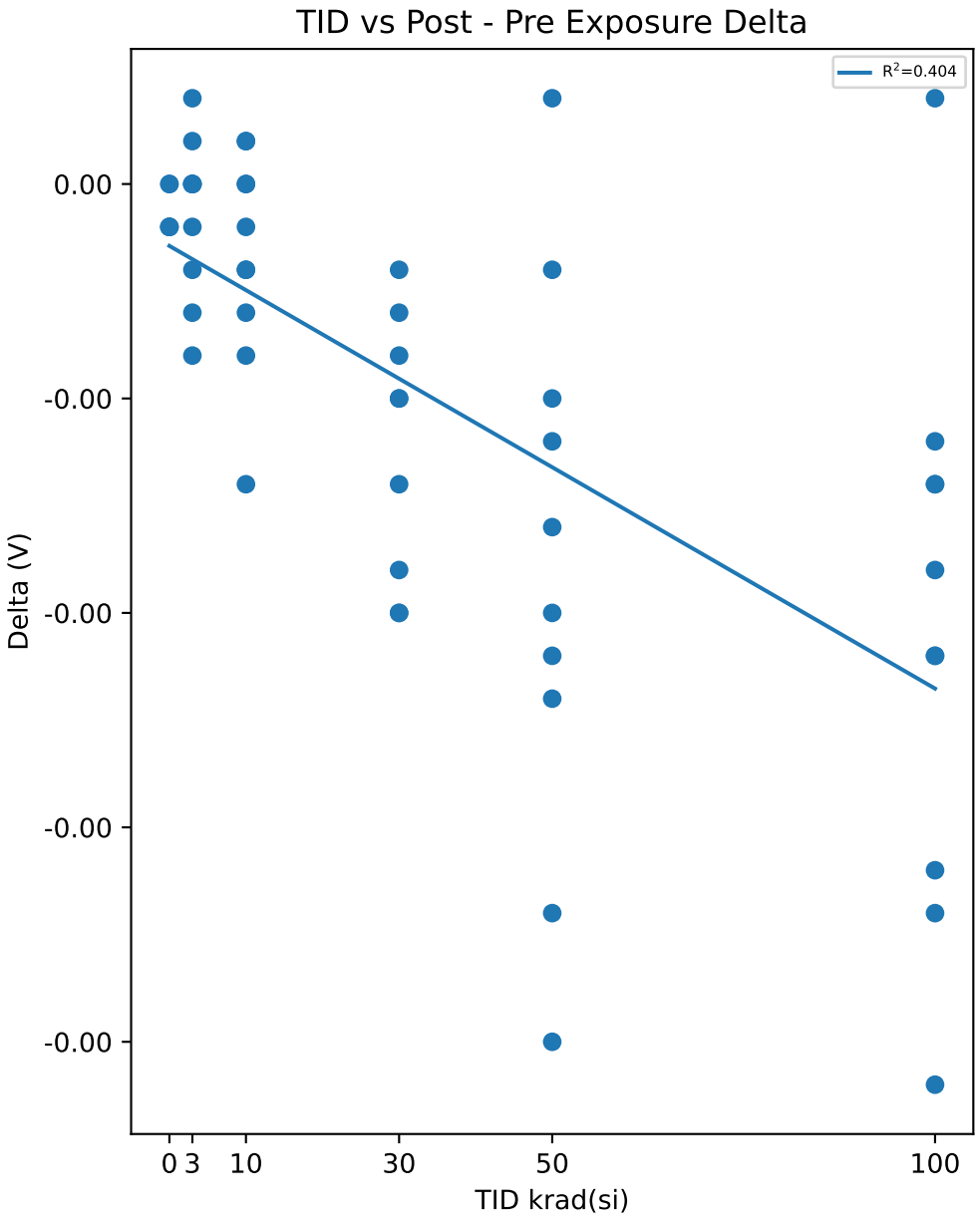
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.2222	1.2235	1.2241	0.00075033	1.222	1.2234	1.224	0.00082462	-0.0002	-6e-05	0.0001	0.00011402
3	1.2223	1.2236	1.2263	0.001315	1.222	1.2235	1.2262	0.0013468	-0.0003	-9e-05	0.0002	0.00015951
10	1.2208	1.2233	1.2256	0.0014864	1.2209	1.2232	1.2254	0.0014505	-0.0006	-0.00017	0.0001	0.00022632
30	1.2236	1.2247	1.2276	0.001285	1.2228	1.2242	1.2275	0.0015256	-0.0009	-0.00054444	-0.0001	0.00029627
50	1.2192	1.2231	1.2247	0.0016972	1.2182	1.2222	1.2233	0.0015283	-0.0021	-0.00089	0.0002	0.00068872
100	1.2218	1.224	1.2263	0.0013208	1.221	1.223	1.2257	0.0015762	-0.0021	-0.00103	0.0002	0.00062902

Device Test: 21.7 VOLTAGE|VREF/VREF/14/14/0/0/5/100kHz//@V_REFCAP

TID vs Result Stats



TID vs Post - Pre Exposure Delta



Test Results (Lower Limit = 1.208, Upper Limit = 1.235 (V))

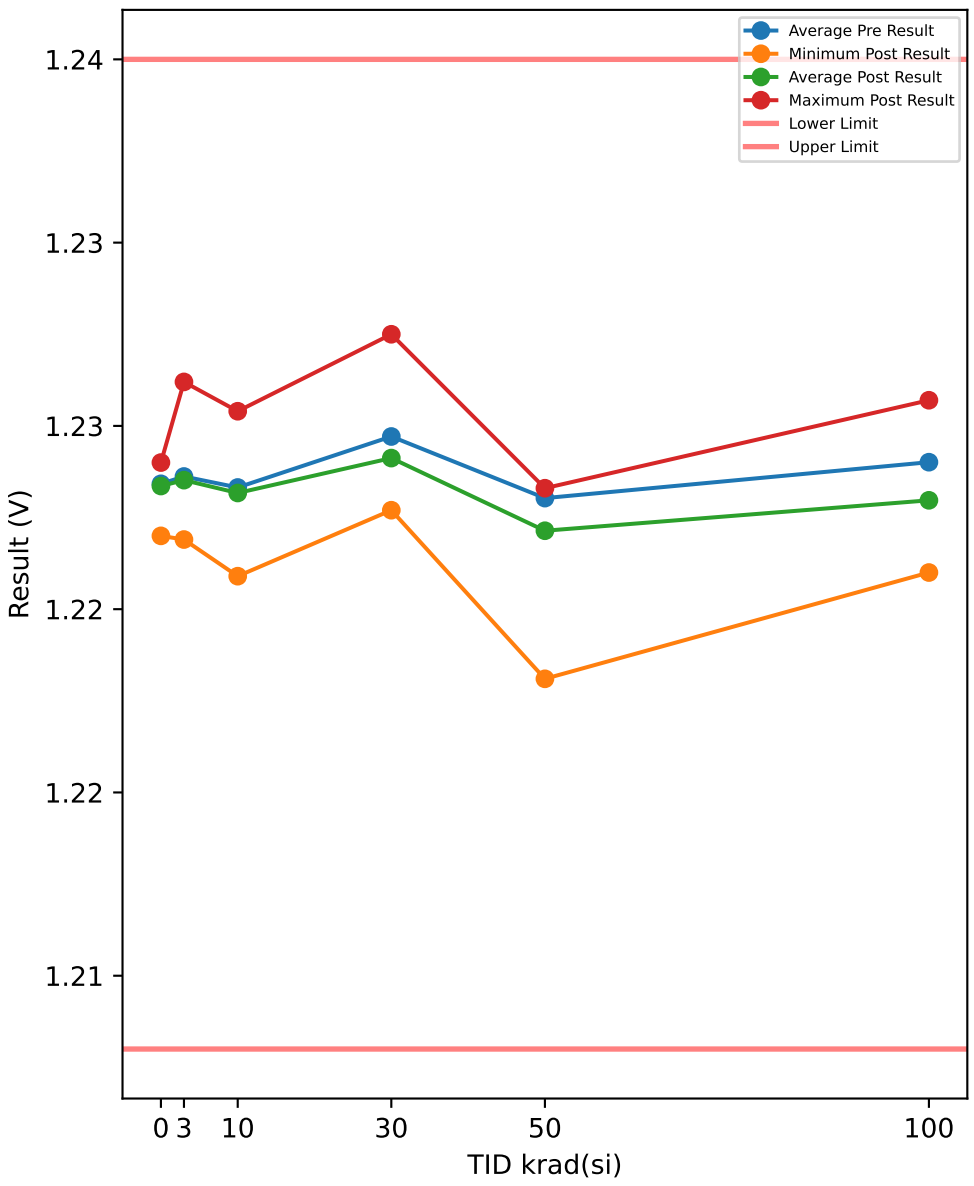
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	1.2241	1.2233	-0.0008
411	100	Unbiased	1.224	1.2223	-0.0017
444	30	Unbiased	1.2277	1.2275	-0.0002
454	10	Unbiased	1.2246	1.2242	-0.0004
491	3	Unbiased	1.2255	1.2255	0
500	100	Unbiased	1.2218	1.2211	-0.0007
534	100	Biased	1.2231	1.222	-0.0011
558	0	Correlation	1.2234	1.2234	0
563	100	Biased	1.2251	1.224	-0.0011
570	3	Unbiased	1.2232	1.2234	0.0002
614	10	Unbiased	1.2225	1.2224	-0.0001
675	3	Biased	1.223	1.2231	0.0001
713	100	Unbiased	1.2251	1.2242	-0.0009
744	50	Biased	1.2217	1.2212	-0.0005
799	50	Biased	1.2226	1.2224	-0.0002
842	30	Unbiased	1.2238	1.2229	-0.0009
889	3	Unbiased	1.2223	1.222	-0.0003
901	3	Biased	1.2229	1.2225	-0.0004
930	50	Unbiased	1.2244	1.2232	-0.0012
968	100	Unbiased	1.2246	1.2248	0.0002
976	100	Unbiased	1.2229	1.2222	-0.0007
981	3	Biased	1.2263	1.2263	0
1003	10	Biased	1.2257	1.2255	-0.0002
1039	3	Biased	1.2244	1.2242	-0.0002
1053	100	Biased	1.2233	1.2212	-0.0021
1056	0	Correlation	1.2241	1.224	-0.0001
1072	10	Biased	1.2231	1.2232	0.0001
1095	50	Unbiased	1.2235	1.2225	-0.001
1099	0	Correlation	1.224	1.224	0
1113	3	Biased	1.2226	1.2225	-0.0001
1142	10	Unbiased	1.2234	1.2227	-0.0007
1154	10	Biased	1.2209	1.2209	0
1215	50	Unbiased	1.2224	1.2226	0.0002
1222	100	Biased	1.2244	1.2228	-0.0016
1229	50	Unbiased	1.2238	1.2232	-0.0006
1255	3	Unbiased	1.2232	1.2232	0
1331	30	Unbiased	1.2243	1.2233	-0.001
1359	30	Biased	1.2238	1.2228	-0.001
1375	30	Unbiased	1.2236	1.2231	-0.0005
1398	30	Biased	1.2242	1.2235	-0.0007
1411	50	Biased	1.2247	1.223	-0.0017
1465	10	Unbiased	1.2215	1.2213	-0.0002
1474	50	Biased	1.2244	1.2224	-0.002
1504	50	Biased	1.2193	1.2182	-0.0011
1540	100	Biased	1.2263	1.2257	-0.0006
1554	3	Unbiased	1.2233	1.2233	0
1662	30	Biased	1.2251	1.2248	-0.0003
1679	10	Biased	1.225	1.225	0
1697	10	Biased	1.2237	1.2238	0.0001
1703	30	Biased	1.2258	1.2254	-0.0004
1704	10	Unbiased	1.2235	1.2232	-0.0003
1736	30	Biased	1.2248	1.2243	-0.0005
1737	0	Correlation	1.2237	1.2236	-0.0001
1748	0	Correlation	1.2222	1.2221	-0.0001

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.2222	1.2235	1.2241	0.00076616	1.2221	1.2234	1.224	0.0007823	-0.0001	-6e-05	0	5.4772e-05
3	1.2223	1.2237	1.2263	0.0013098	1.222	1.2236	1.2263	0.0013654	-0.0004	-7e-05	0.0002	0.00018288
10	1.2209	1.2234	1.2257	0.0014963	1.2209	1.2232	1.2255	0.0014786	-0.0007	-0.00017	0.0001	0.00024967
30	1.2236	1.2248	1.2277	0.0013014	1.2228	1.2242	1.2275	0.0015352	-0.001	-0.00061111	-0.0002	0.00030185
50	1.2193	1.2231	1.2247	0.0016576	1.2182	1.2222	1.2233	0.0015341	-0.002	-0.00089	0.0002	0.0006624
100	1.2218	1.2241	1.2263	0.0013142	1.2211	1.223	1.2257	0.0015628	-0.0021	-0.00103	0.0002	0.00065498

Device Test: 21.9 VOLTAGE|VREF/VREF/12/12/0/0/5/500kHz//@V_REFCAP

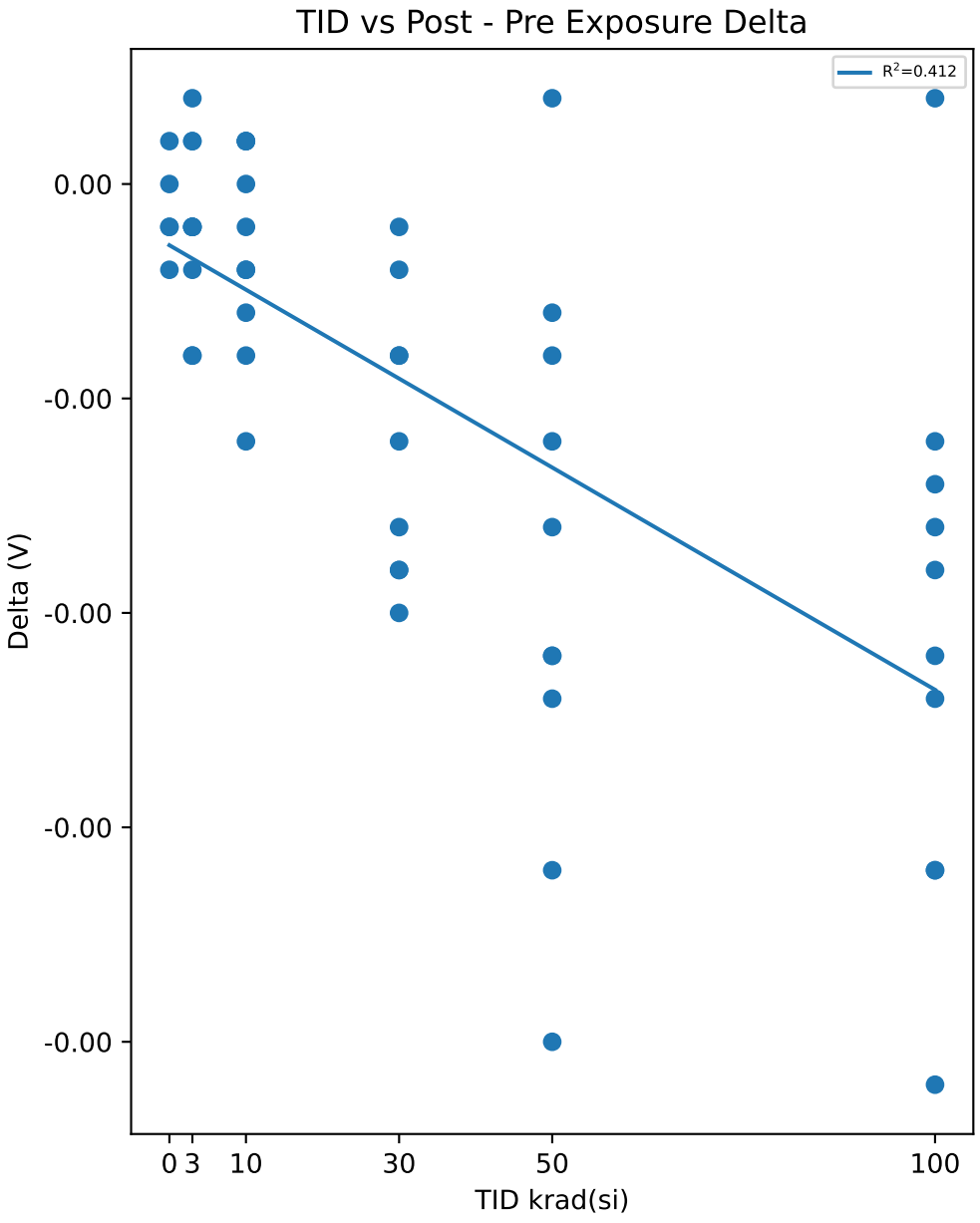
TID vs Result Stats



Test Results (Lower Limit = 1.208, Upper Limit = 1.235 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	1.2241	1.2233	-0.0008
411	100	Unbiased	1.2239	1.2223	-0.0016
444	30	Unbiased	1.2276	1.2275	-0.0001
454	10	Unbiased	1.2246	1.2242	-0.0004
491	3	Unbiased	1.2254	1.2255	0.0001
500	100	Unbiased	1.2218	1.221	-0.0008
534	100	Biased	1.223	1.2219	-0.0011
558	0	Correlation	1.2234	1.2233	-0.0001
563	100	Biased	1.2251	1.2239	-0.0012
570	3	Unbiased	1.2231	1.2233	0.0002
614	10	Unbiased	1.2225	1.2223	-0.0002
675	3	Biased	1.2229	1.223	0.0001
713	100	Unbiased	1.225	1.2241	-0.0009
744	50	Biased	1.2216	1.2212	-0.0004
799	50	Biased	1.2226	1.2223	-0.0003
842	30	Unbiased	1.2237	1.2228	-0.0009
889	3	Unbiased	1.2223	1.2219	-0.0004
901	3	Biased	1.2228	1.2224	-0.0004
930	50	Unbiased	1.2244	1.2232	-0.0012
968	100	Unbiased	1.2245	1.2247	0.0002
976	100	Unbiased	1.2229	1.2222	-0.0007
981	3	Biased	1.2263	1.2262	-0.0001
1003	10	Biased	1.2256	1.2254	-0.0002
1039	3	Biased	1.2243	1.2241	-0.0002
1053	100	Biased	1.2233	1.2212	-0.0021
1056	0	Correlation	1.224	1.224	0
1072	10	Biased	1.223	1.2231	0.0001
1095	50	Unbiased	1.2235	1.2224	-0.0011
1099	0	Correlation	1.2239	1.224	0.0001
1113	3	Biased	1.2226	1.2225	-0.0001
1142	10	Unbiased	1.2233	1.2227	-0.0006
1154	10	Biased	1.2208	1.2209	0.0001
1215	50	Unbiased	1.2223	1.2225	0.0002
1222	100	Biased	1.2243	1.2227	-0.0016
1229	50	Unbiased	1.2237	1.2231	-0.0006
1255	3	Unbiased	1.2232	1.2231	-0.0001
1331	30	Unbiased	1.2242	1.2233	-0.0009
1359	30	Biased	1.2237	1.2227	-0.001
1375	30	Unbiased	1.2236	1.223	-0.0006
1398	30	Biased	1.2242	1.2234	-0.0008
1411	50	Biased	1.2246	1.223	-0.0016
1465	10	Unbiased	1.2214	1.2213	-0.0001
1474	50	Biased	1.2243	1.2223	-0.002
1504	50	Biased	1.2192	1.2181	-0.0011
1540	100	Biased	1.2263	1.2257	-0.0006
1554	3	Unbiased	1.2233	1.2232	-0.0001
1662	30	Biased	1.225	1.2248	-0.0002
1679	10	Biased	1.2249	1.2249	0
1697	10	Biased	1.2236	1.2237	0.0001
1703	30	Biased	1.2257	1.2253	-0.0004
1704	10	Unbiased	1.2235	1.2232	-0.0003
1736	30	Biased	1.2247	1.2243	-0.0004
1737	0	Correlation	1.2236	1.2235	-0.0001
1748	0	Correlation	1.2222	1.222	-0.0002

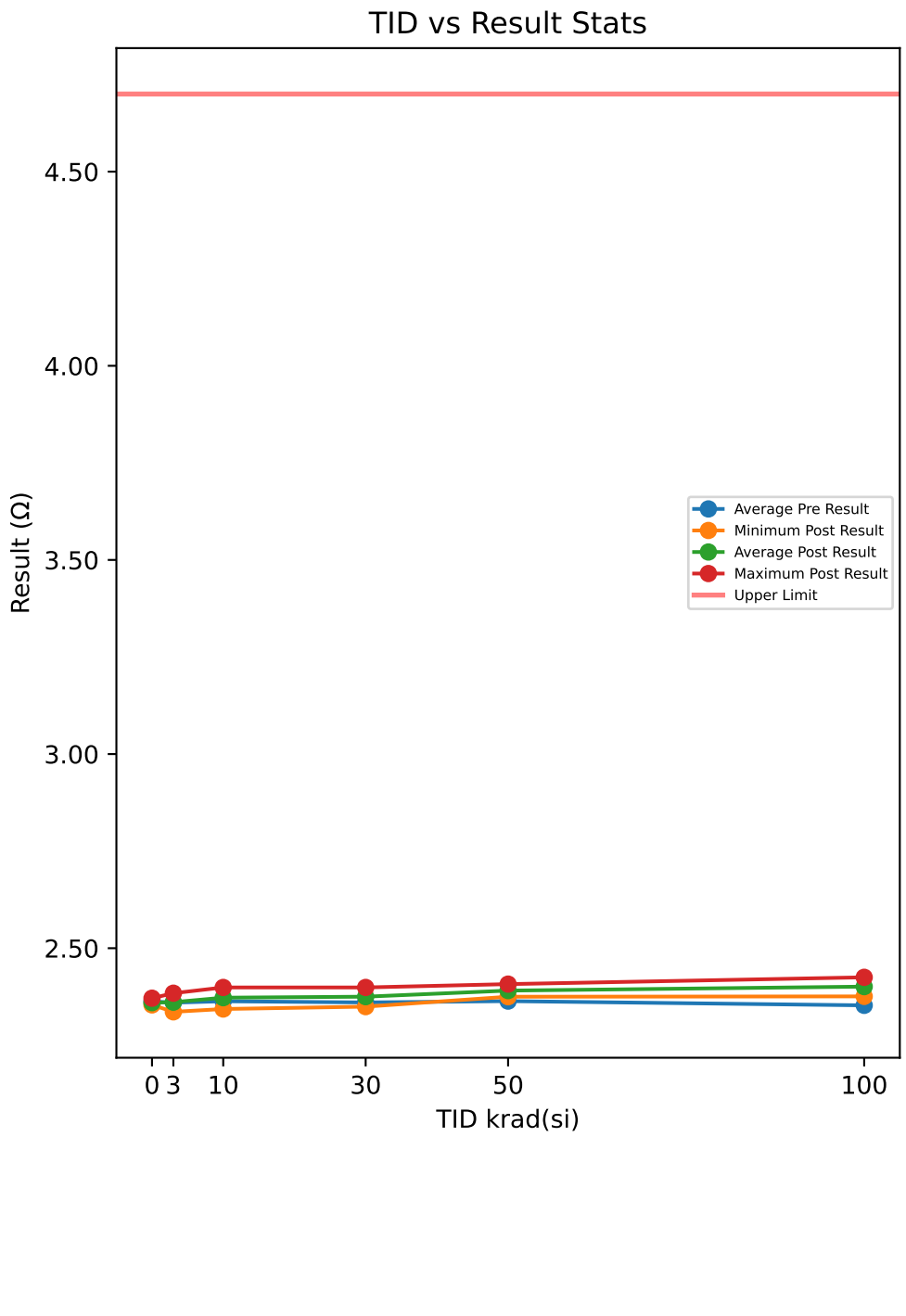
TID vs Post - Pre Exposure Delta

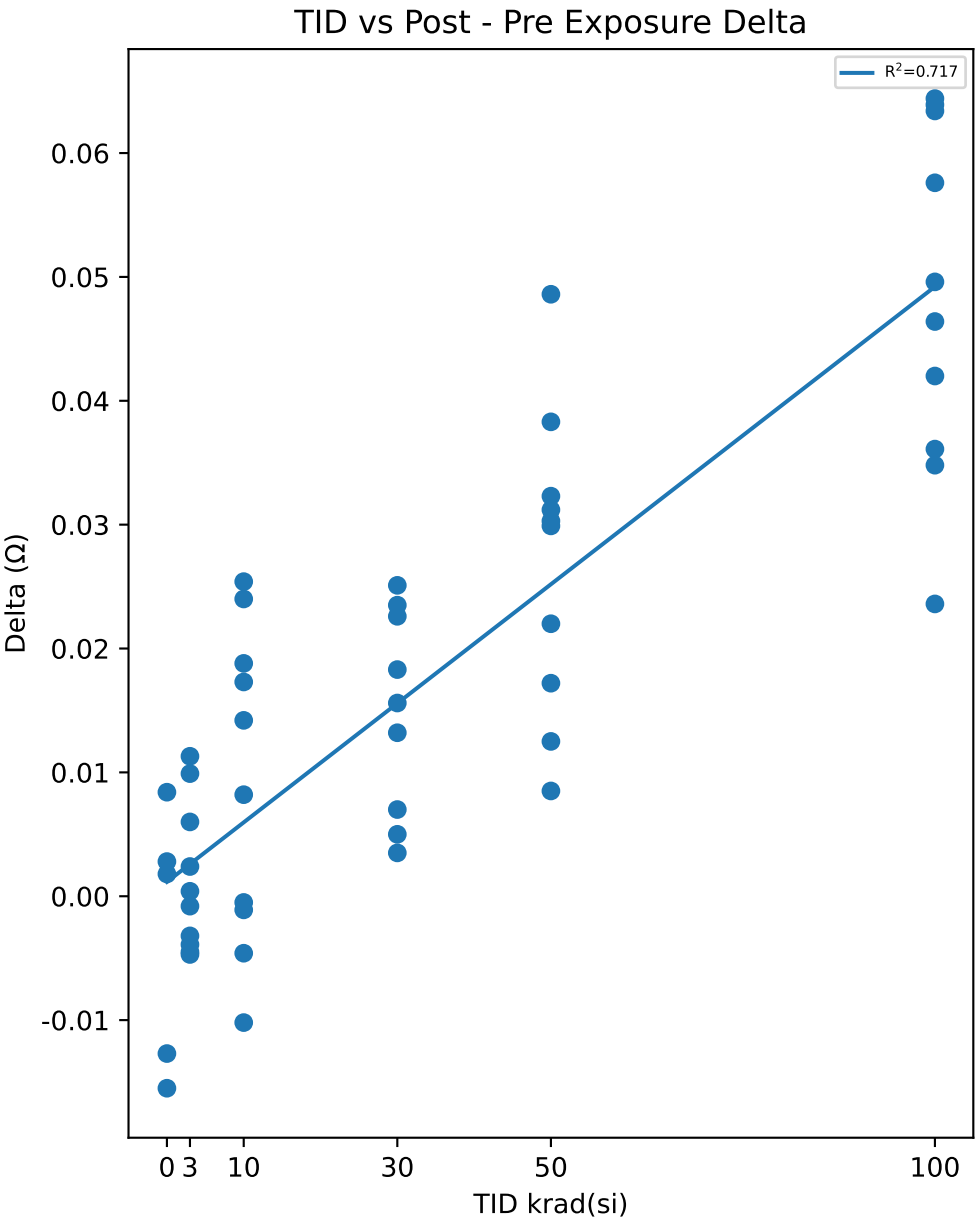


Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.2222	1.2234	1.224	0.0007225	1.222	1.2234	1.224	0.00082037	-0.0002	-6e-05	0.0001	0.00011402
3	1.2223	1.2236	1.2263	0.0013054	1.2219	1.2235	1.2262	0.0013726	-0.0004	-0.0001	0.0002	0.0002
10	1.2208	1.2233	1.2256	0.0015002	1.2209	1.2232	1.2254	0.0014507	-0.0006	-0.00015	0.0001	0.00023688
30	1.2236	1.2247	1.2276	0.001285	1.2227	1.2241	1.2275	0.0015619	-0.001	-0.00058889	-0.0001	0.00032956
50	1.2192	1.223	1.2246	0.0016734	1.2181	1.2221	1.2233	0.0015486	-0.002	-0.00089	0.0002	0.00064885
100	1.2218	1.224	1.2263	0.0013076	1.221	1.223	1.2257	0.0015585	-0.0021	-0.00104	0.0002	0.00064153

Device Test: 23.19 LEVEL|HS_RDSON/OUTH/12/12/100/0/5/500kHz//@ROH





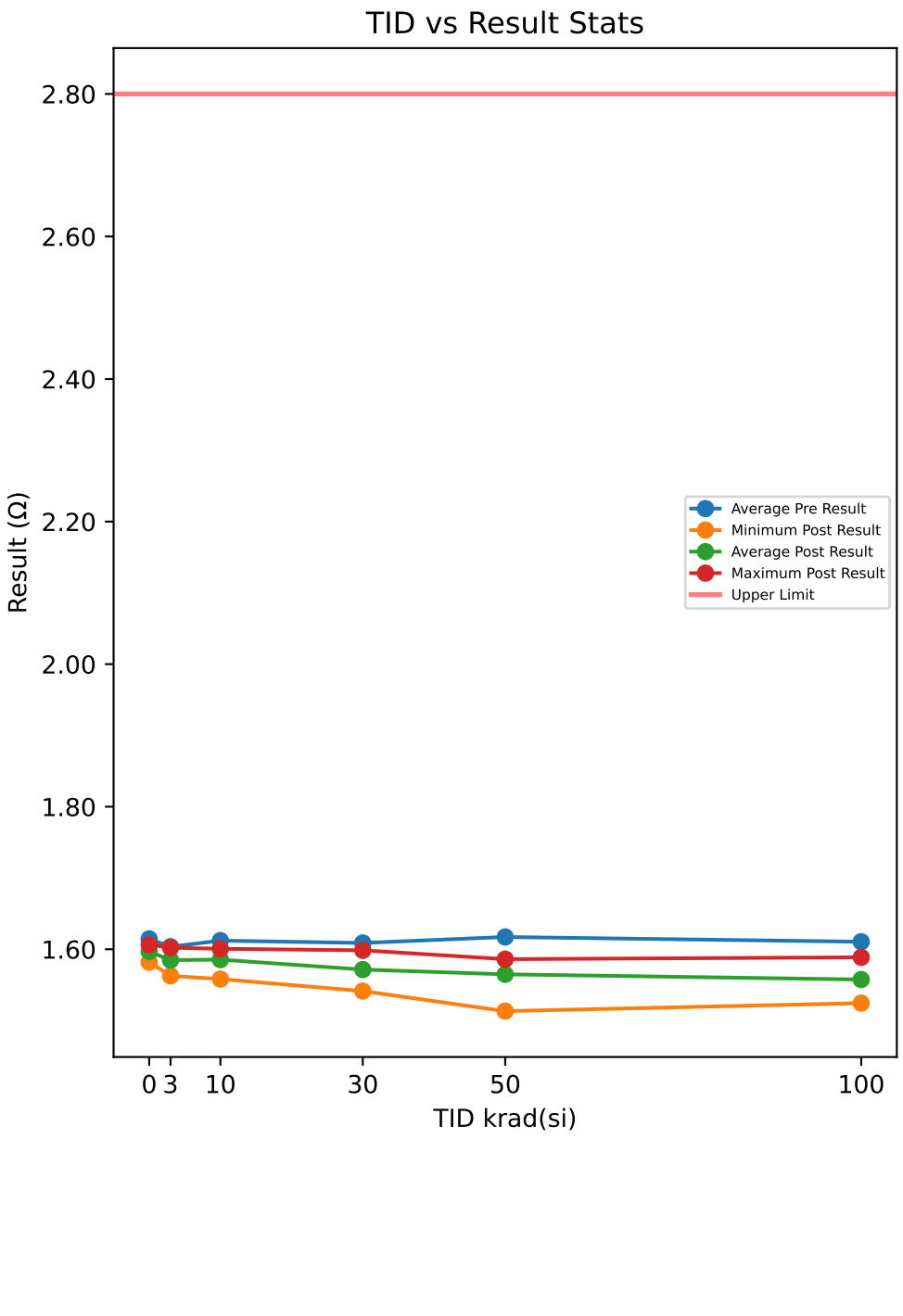
Test Results (Upper Limit = 4.7 (Ω))

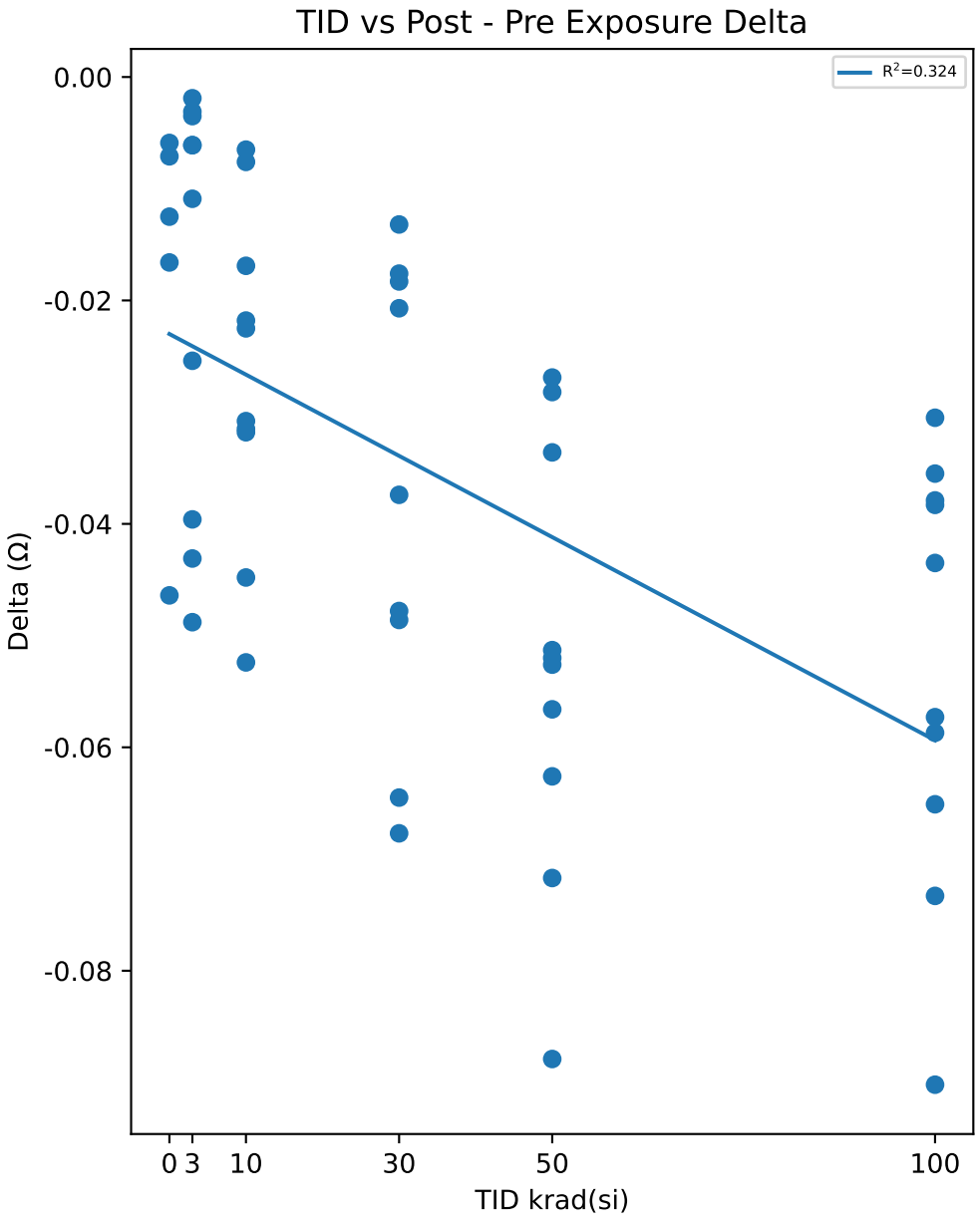
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	2.3646	2.4029	0.0383
411	100	Unbiased	2.3398	2.3759	0.0361
444	30	Unbiased	2.3425	2.3495	0.007
454	10	Unbiased	2.3681	2.3823	0.0142
491	3	Unbiased	2.3523	2.3622	0.0099
500	100	Unbiased	2.3469	2.3933	0.0464
534	100	Biased	2.3606	2.425	0.0644
558	0	Correlation	2.3497	2.3581	0.0084
563	100	Biased	2.3497	2.3917	0.042
570	3	Unbiased	2.3629	2.3582	-0.0047
614	10	Unbiased	2.348	2.3434	-0.0046
675	3	Biased	2.3596	2.3709	0.0113
713	100	Unbiased	2.379	2.4026	0.0236
744	50	Biased	2.3568	2.4054	0.0486
799	50	Biased	2.3836	2.4008	0.0172
842	30	Unbiased	2.3754	2.3989	0.0235
889	3	Unbiased	2.3736	2.3691	-0.0045
901	3	Biased	2.3301	2.3361	0.006
930	50	Unbiased	2.3461	2.376	0.0299
968	100	Unbiased	2.3489	2.3985	0.0496
976	100	Unbiased	2.3695	2.4043	0.0348
981	3	Biased	2.3525	2.3493	-0.0032
1003	10	Biased	2.3608	2.3862	0.0254
1039	3	Biased	2.3684	2.3708	0.0024
1053	100	Biased	2.3559	2.4135	0.0576
1056	0	Correlation	2.3684	2.3712	0.0028
1072	10	Biased	2.4091	2.3989	-0.0102
1095	50	Unbiased	2.3631	2.3943	0.0312
1099	0	Correlation	2.3683	2.3556	-0.0127
1113	3	Biased	2.3849	2.3841	-0.0008
1142	10	Unbiased	2.3372	2.3545	0.0173
1154	10	Biased	2.3664	2.3746	0.0082
1215	50	Unbiased	2.3531	2.3751	0.022
1222	100	Biased	2.3455	2.4089	0.0634
1229	50	Unbiased	2.3665	2.375	0.0085
1255	3	Unbiased	2.3576	2.3537	-0.0039
1331	30	Unbiased	2.3577	2.3733	0.0156
1359	30	Biased	2.3503	2.3729	0.0226
1375	30	Unbiased	2.3681	2.3716	0.0035
1398	30	Biased	2.3442	2.3693	0.0251
1411	50	Biased	2.361	2.3913	0.0303
1465	10	Unbiased	2.3612	2.3601	-0.0011
1474	50	Biased	2.3752	2.4075	0.0323
1504	50	Biased	2.3673	2.3798	0.0125
1540	100	Biased	2.3327	2.3966	0.0639
1554	3	Unbiased	2.3551	2.3555	0.0004
1662	30	Biased	2.3694	2.3877	0.0183
1679	10	Biased	2.3664	2.3852	0.0188
1697	10	Biased	2.371	2.3705	-0.0005
1703	30	Biased	2.3639	2.3689	0.005
1704	10	Unbiased	2.3459	2.3699	0.024
1736	30	Biased	2.371	2.3842	0.0132
1737	0	Correlation	2.3756	2.3601	-0.0155
1748	0	Correlation	2.3522	2.354	0.0018

Test Statistics (Ω)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2.3497	2.3628	2.3756	0.011285	2.354	2.3598	2.3712	0.0067864	-0.0155	-0.00304	0.0084	0.010452
3	2.3301	2.3597	2.3849	0.014616	2.3361	2.361	2.3841	0.013511	-0.0047	0.00129	0.0113	0.0059573
10	2.3372	2.3634	2.4091	0.019516	2.3434	2.3726	2.3989	0.016606	-0.0102	0.00915	0.0254	0.012615
30	2.3425	2.3603	2.3754	0.012155	2.3495	2.3751	2.3989	0.013945	0.0035	0.014867	0.0251	0.0082356
50	2.3461	2.3637	2.3836	0.010684	2.375	2.3908	2.4075	0.01328	0.0085	0.02708	0.0486	0.012169
100	2.3327	2.3529	2.379	0.013831	2.3759	2.401	2.425	0.013373	0.0236	0.04818	0.0644	0.014154

Device Test: 23.20 LEVEL|LS_RDSON/OUTL/12/12/100/0/5/500kHz//@ROL





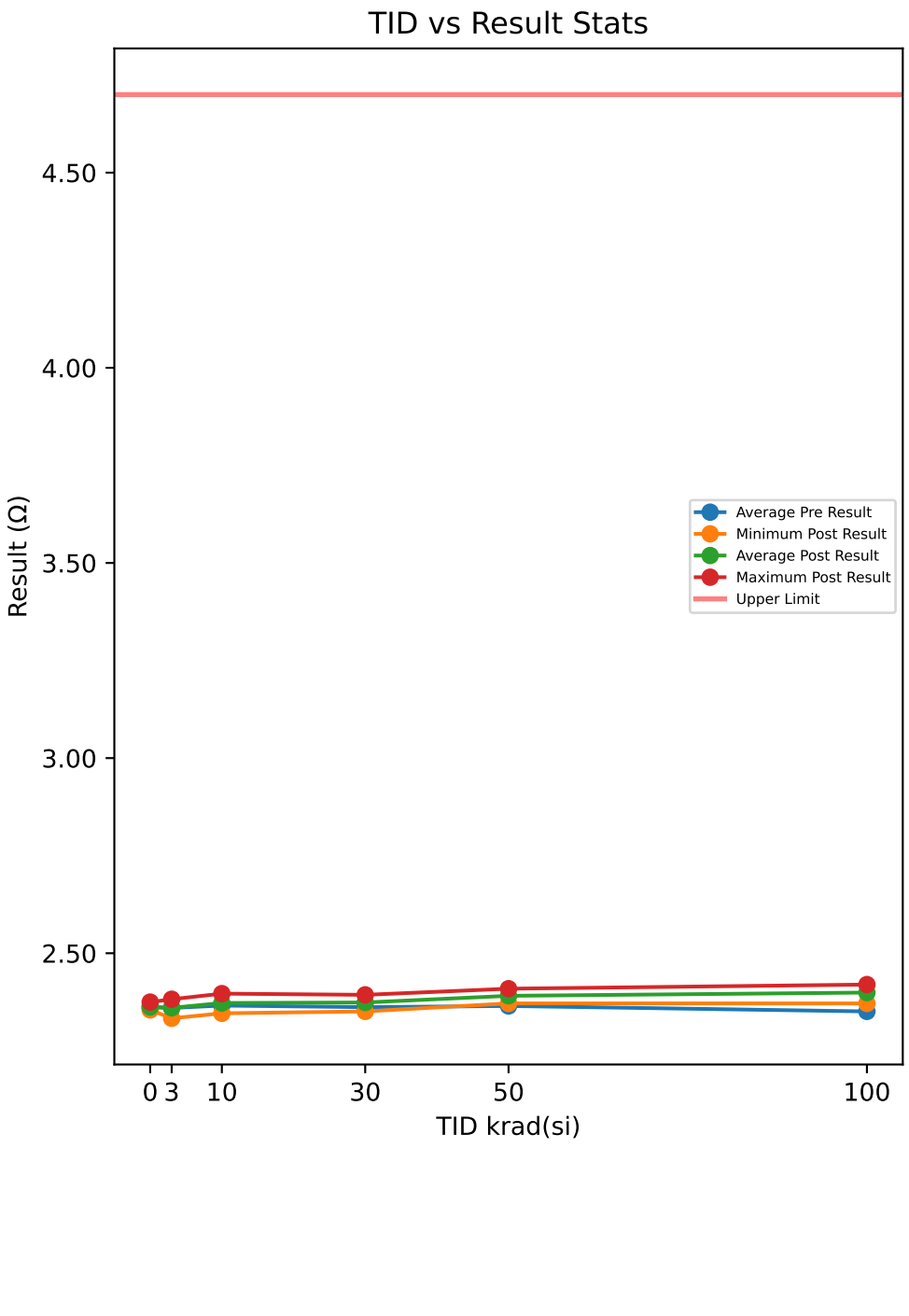
Test Results (Upper Limit = 2.8 (Ω))

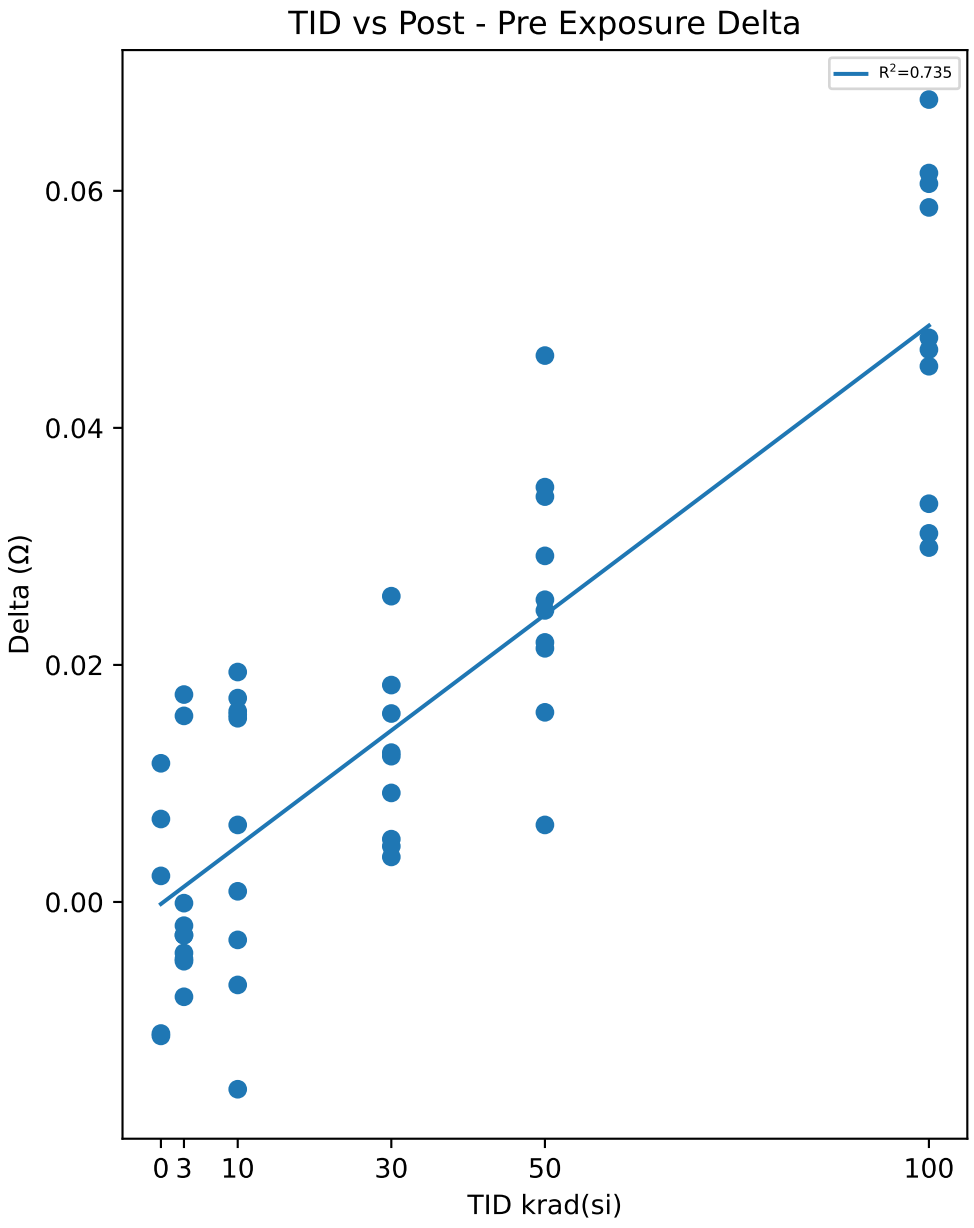
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	1.6162	1.5636	-0.0526
411	100	Unbiased	1.6145	1.5762	-0.0383
444	30	Unbiased	1.5999	1.5867	-0.0132
454	10	Unbiased	1.6072	1.6007	-0.0065
491	3	Unbiased	1.603	1.5921	-0.0109
500	100	Unbiased	1.6198	1.5819	-0.0379
534	100	Biased	1.5954	1.5367	-0.0587
558	0	Correlation	1.6188	1.6063	-0.0125
563	100	Biased	1.6072	1.5421	-0.0651
570	3	Unbiased	1.6083	1.6022	-0.0061
614	10	Unbiased	1.6148	1.5979	-0.0169
675	3	Biased	1.6092	1.5661	-0.0431
713	100	Unbiased	1.5898	1.5543	-0.0355
744	50	Biased	1.6392	1.5766	-0.0626
799	50	Biased	1.6172	1.5659	-0.0513
842	30	Unbiased	1.6161	1.5985	-0.0176
889	3	Unbiased	1.5953	1.5699	-0.0254
901	3	Biased	1.5983	1.5948	-0.0035
930	50	Unbiased	1.6137	1.5801	-0.0336
968	100	Unbiased	1.6322	1.5887	-0.0435
976	100	Unbiased	1.6006	1.5701	-0.0305
981	3	Biased	1.6005	1.5986	-0.0019
1003	10	Biased	1.6153	1.5835	-0.0318
1039	3	Biased	1.6115	1.5627	-0.0488
1053	100	Biased	1.6146	1.5244	-0.0902
1056	0	Correlation	1.6008	1.5949	-0.0059
1072	10	Biased	1.6029	1.5714	-0.0315
1095	50	Unbiased	1.613	1.5861	-0.0269
1099	0	Correlation	1.5985	1.5819	-0.0166
1113	3	Biased	1.6058	1.5662	-0.0396
1142	10	Unbiased	1.6009	1.5933	-0.0076
1154	10	Biased	1.6106	1.5582	-0.0524
1215	50	Unbiased	1.6025	1.5459	-0.0566
1222	100	Biased	1.6109	1.5376	-0.0733
1229	50	Unbiased	1.6075	1.5793	-0.0282
1255	3	Unbiased	1.5974	1.5943	-0.0031
1331	30	Unbiased	1.5956	1.5749	-0.0207
1359	30	Biased	1.609	1.5413	-0.0677
1375	30	Unbiased	1.6089	1.5906	-0.0183
1398	30	Biased	1.6007	1.5633	-0.0374
1411	50	Biased	1.6011	1.5132	-0.0879
1465	10	Unbiased	1.6313	1.6005	-0.0308
1474	50	Biased	1.6271	1.5554	-0.0717
1504	50	Biased	1.6345	1.5825	-0.052
1540	100	Biased	1.6206	1.5633	-0.0573
1554	3	Unbiased	1.6066	1.6005	-0.0061
1662	30	Biased	1.6173	1.5528	-0.0645
1679	10	Biased	1.6062	1.5844	-0.0218
1697	10	Biased	1.6103	1.5878	-0.0225
1703	30	Biased	1.6093	1.5607	-0.0486
1704	10	Unbiased	1.6216	1.5768	-0.0448
1736	30	Biased	1.6226	1.5748	-0.0478
1737	0	Correlation	1.6127	1.6056	-0.0071
1748	0	Correlation	1.6419	1.5955	-0.0464

Test Statistics (Ω)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.5985	1.6145	1.6419	0.017437	1.5819	1.5968	1.6063	0.0099372	-0.0464	-0.0177	-0.0059	0.01661
3	1.5953	1.6036	1.6115	0.0055286	1.5627	1.5847	1.6022	0.016293	-0.0488	-0.01885	-0.0019	0.018613
10	1.6009	1.6121	1.6313	0.0091336	1.5582	1.5855	1.6007	0.013747	-0.0524	-0.02666	-0.0065	0.014774
30	1.5956	1.6088	1.6226	0.0089116	1.5413	1.5715	1.5985	0.018685	-0.0677	-0.037311	-0.0132	0.020939
50	1.6011	1.6172	1.6392	0.01283	1.5132	1.5649	1.5861	0.022264	-0.0879	-0.05234	-0.0269	0.019279
100	1.5898	1.6106	1.6322	0.012727	1.5244	1.5575	1.5887	0.021814	-0.0902	-0.05303	-0.0305	0.019265

Device Test: 23.21 LEVEL|HS_RDSON/OUTH/14/14/100/0/5/500kHz//@ROH





Test Results (Upper Limit = 4.7 (Ω))

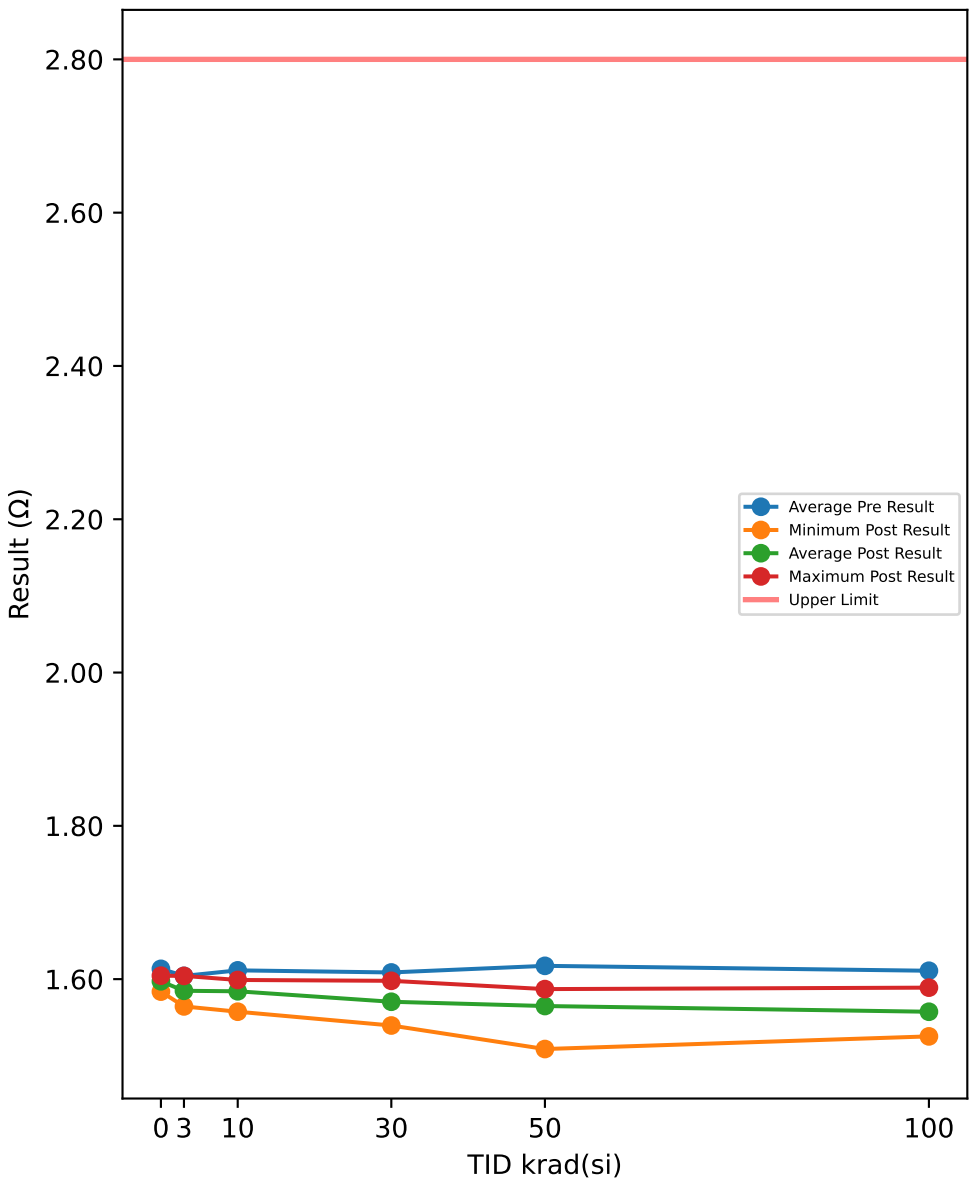
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	2.3707	2.3962	0.0255
411	100	Unbiased	2.3415	2.3714	0.0299
444	30	Unbiased	2.3418	2.351	0.0092
454	10	Unbiased	2.3697	2.3869	0.0172
491	3	Unbiased	2.3512	2.3669	0.0157
500	100	Unbiased	2.345	2.3926	0.0476
534	100	Biased	2.352	2.4197	0.0677
558	0	Correlation	2.3477	2.3594	0.0117
563	100	Biased	2.344	2.3892	0.0452
570	3	Unbiased	2.3574	2.3524	-0.005
614	10	Unbiased	2.3493	2.3461	-0.0032
675	3	Biased	2.3557	2.3732	0.0175
713	100	Unbiased	2.3743	2.4054	0.0311
744	50	Biased	2.363	2.4091	0.0461
799	50	Biased	2.3885	2.4045	0.016
842	30	Unbiased	2.3751	2.3934	0.0183
889	3	Unbiased	2.3719	2.3676	-0.0043
901	3	Biased	2.3361	2.3333	-0.0028
930	50	Unbiased	2.3423	2.3715	0.0292
968	100	Unbiased	2.3432	2.3898	0.0466
976	100	Unbiased	2.3716	2.4052	0.0336
981	3	Biased	2.3533	2.3485	-0.0048
1003	10	Biased	2.3615	2.3809	0.0194
1039	3	Biased	2.3715	2.3695	-0.002
1053	100	Biased	2.3541	2.4147	0.0606
1056	0	Correlation	2.3726	2.3748	0.0022
1072	10	Biased	2.4123	2.3965	-0.0158
1095	50	Unbiased	2.3697	2.3943	0.0246
1099	0	Correlation	2.3661	2.3548	-0.0113
1113	3	Biased	2.3822	2.3821	-0.0001
1142	10	Unbiased	2.3424	2.3579	0.0155
1154	10	Biased	2.3682	2.3747	0.0065
1215	50	Unbiased	2.3511	2.373	0.0219
1222	100	Biased	2.3485	2.4071	0.0586
1229	50	Unbiased	2.3695	2.376	0.0065
1255	3	Unbiased	2.3582	2.3502	-0.008
1331	30	Unbiased	2.3584	2.3707	0.0123
1359	30	Biased	2.3547	2.3706	0.0159
1375	30	Unbiased	2.3678	2.3725	0.0047
1398	30	Biased	2.3478	2.3736	0.0258
1411	50	Biased	2.3609	2.3951	0.0342
1465	10	Unbiased	2.3618	2.3627	0.0009
1474	50	Biased	2.3723	2.4073	0.035
1504	50	Biased	2.3607	2.3821	0.0214
1540	100	Biased	2.3353	2.3968	0.0615
1554	3	Unbiased	2.3603	2.3575	-0.0028
1662	30	Biased	2.3742	2.3868	0.0126
1679	10	Biased	2.3692	2.3853	0.0161
1697	10	Biased	2.3723	2.3653	-0.007
1703	30	Biased	2.3618	2.3671	0.0053
1704	10	Unbiased	2.3528	2.3686	0.0158
1736	30	Biased	2.3746	2.3784	0.0038
1737	0	Correlation	2.3756	2.3645	-0.0111
1748	0	Correlation	2.3502	2.3572	0.007

Test Statistics (Ω)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2.3477	2.3624	2.3756	0.012815	2.3548	2.3621	2.3748	0.0079315	-0.0113	-0.0003	0.0117	0.010502
3	2.3361	2.3598	2.3822	0.01286	2.3333	2.3601	2.3821	0.014389	-0.008	0.00034	0.0175	0.0088305
10	2.3424	2.366	2.4123	0.019032	2.3461	2.3725	2.3965	0.01526	-0.0158	0.00654	0.0194	0.012227
30	2.3418	2.3618	2.3751	0.012188	2.351	2.3738	2.3934	0.012045	0.0038	0.011989	0.0258	0.0072375
50	2.3423	2.3649	2.3885	0.012596	2.3715	2.3909	2.4091	0.014293	0.0065	0.02604	0.0461	0.010969
100	2.3353	2.351	2.3743	0.012766	2.3714	2.3992	2.4197	0.014173	0.0299	0.04824	0.0677	0.013628

Device Test: 23.22 LEVEL|LS_RDSON/OUTL/14/14/100/0/5/500kHz//@ROL

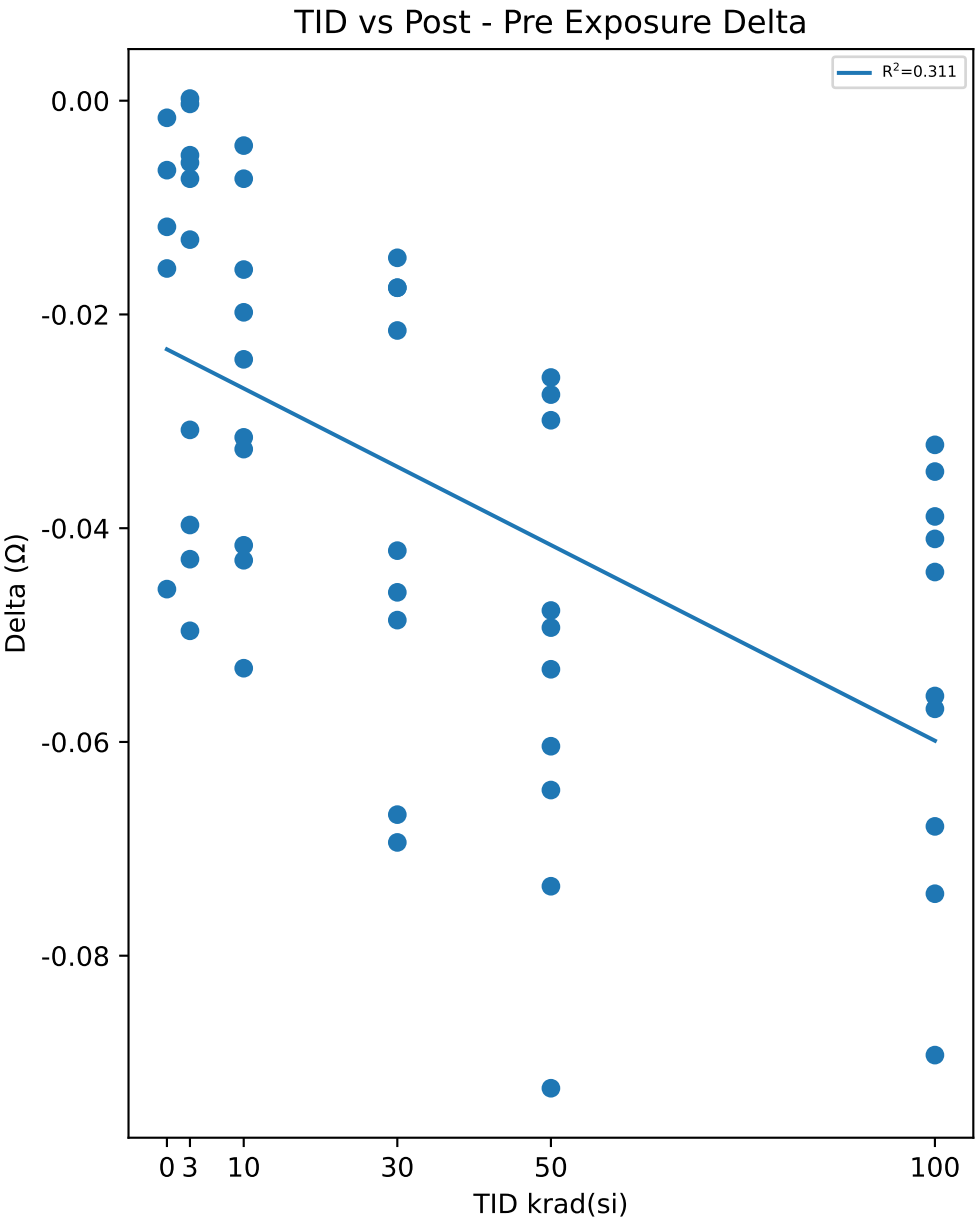
TID vs Result Stats



Test Results (Upper Limit = 2.8 (Ω))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	1.6136	1.5643	-0.0493
411	100	Unbiased	1.6146	1.5736	-0.041
444	30	Unbiased	1.6018	1.5871	-0.0147
454	10	Unbiased	1.6062	1.5989	-0.0073
491	3	Unbiased	1.6073	1.5943	-0.013
500	100	Unbiased	1.6198	1.5809	-0.0389
534	100	Biased	1.5946	1.5377	-0.0569
558	0	Correlation	1.6163	1.6045	-0.0118
563	100	Biased	1.6117	1.5438	-0.0679
570	3	Unbiased	1.6112	1.6039	-0.0073
614	10	Unbiased	1.6146	1.5988	-0.0158
675	3	Biased	1.6075	1.5646	-0.0429
713	100	Unbiased	1.5872	1.555	-0.0322
744	50	Biased	1.6438	1.5793	-0.0645
799	50	Biased	1.6174	1.5642	-0.0532
842	30	Unbiased	1.6153	1.5978	-0.0175
889	3	Unbiased	1.5952	1.5644	-0.0308
901	3	Biased	1.5999	1.5941	-0.0058
930	50	Unbiased	1.6119	1.582	-0.0299
968	100	Unbiased	1.633	1.5889	-0.0441
976	100	Unbiased	1.6014	1.5667	-0.0347
981	3	Biased	1.5988	1.5985	-0.0003
1003	10	Biased	1.6171	1.5755	-0.0416
1039	3	Biased	1.6142	1.5646	-0.0496
1053	100	Biased	1.6146	1.5253	-0.0893
1056	0	Correlation	1.6009	1.5993	-0.0016
1072	10	Biased	1.6001	1.5686	-0.0315
1095	50	Unbiased	1.6129	1.587	-0.0259
1099	0	Correlation	1.5994	1.5837	-0.0157
1113	3	Biased	1.6066	1.5669	-0.0397
1142	10	Unbiased	1.5992	1.595	-0.0042
1154	10	Biased	1.6106	1.5575	-0.0531
1215	50	Unbiased	1.6043	1.5439	-0.0604
1222	100	Biased	1.6135	1.5393	-0.0742
1229	50	Unbiased	1.6058	1.5783	-0.0275
1255	3	Unbiased	1.5974	1.5923	-0.0051
1331	30	Unbiased	1.5963	1.5748	-0.0215
1359	30	Biased	1.6089	1.5395	-0.0694
1375	30	Unbiased	1.607	1.5895	-0.0175
1398	30	Biased	1.6	1.5579	-0.0421
1411	50	Biased	1.6012	1.5088	-0.0924
1465	10	Unbiased	1.6313	1.5987	-0.0326
1474	50	Biased	1.628	1.5545	-0.0735
1504	50	Biased	1.6345	1.5868	-0.0477
1540	100	Biased	1.619	1.5633	-0.0557
1554	3	Unbiased	1.604	1.6042	0.0002
1662	30	Biased	1.6181	1.5513	-0.0668
1679	10	Biased	1.6053	1.5855	-0.0198
1697	10	Biased	1.6076	1.5834	-0.0242
1703	30	Biased	1.6092	1.5606	-0.0486
1704	10	Unbiased	1.6225	1.5795	-0.043
1736	30	Biased	1.6218	1.5758	-0.046
1737	0	Correlation	1.6103	1.6038	-0.0065
1748	0	Correlation	1.6402	1.5945	-0.0457

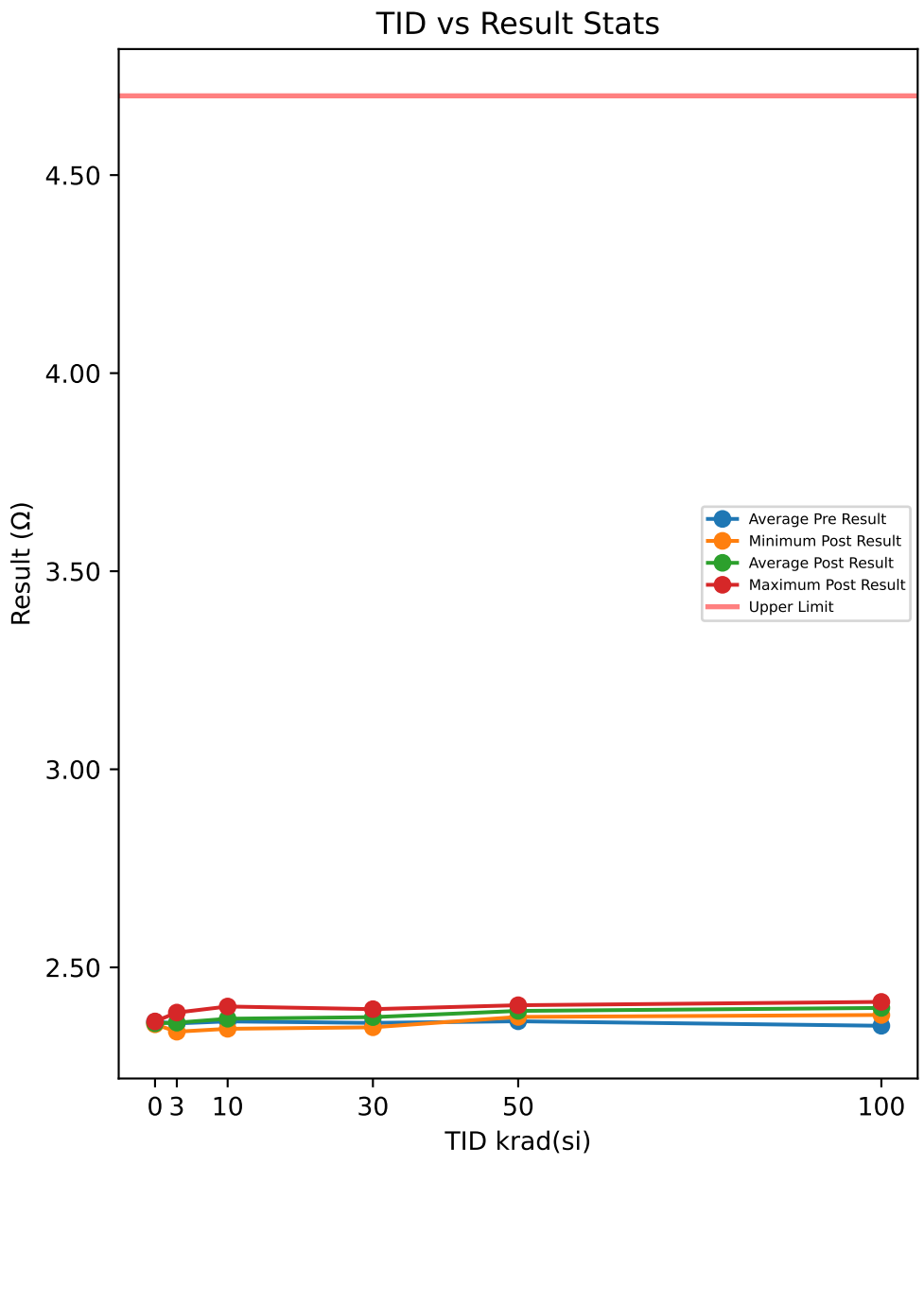
TID vs Post - Pre Exposure Delta

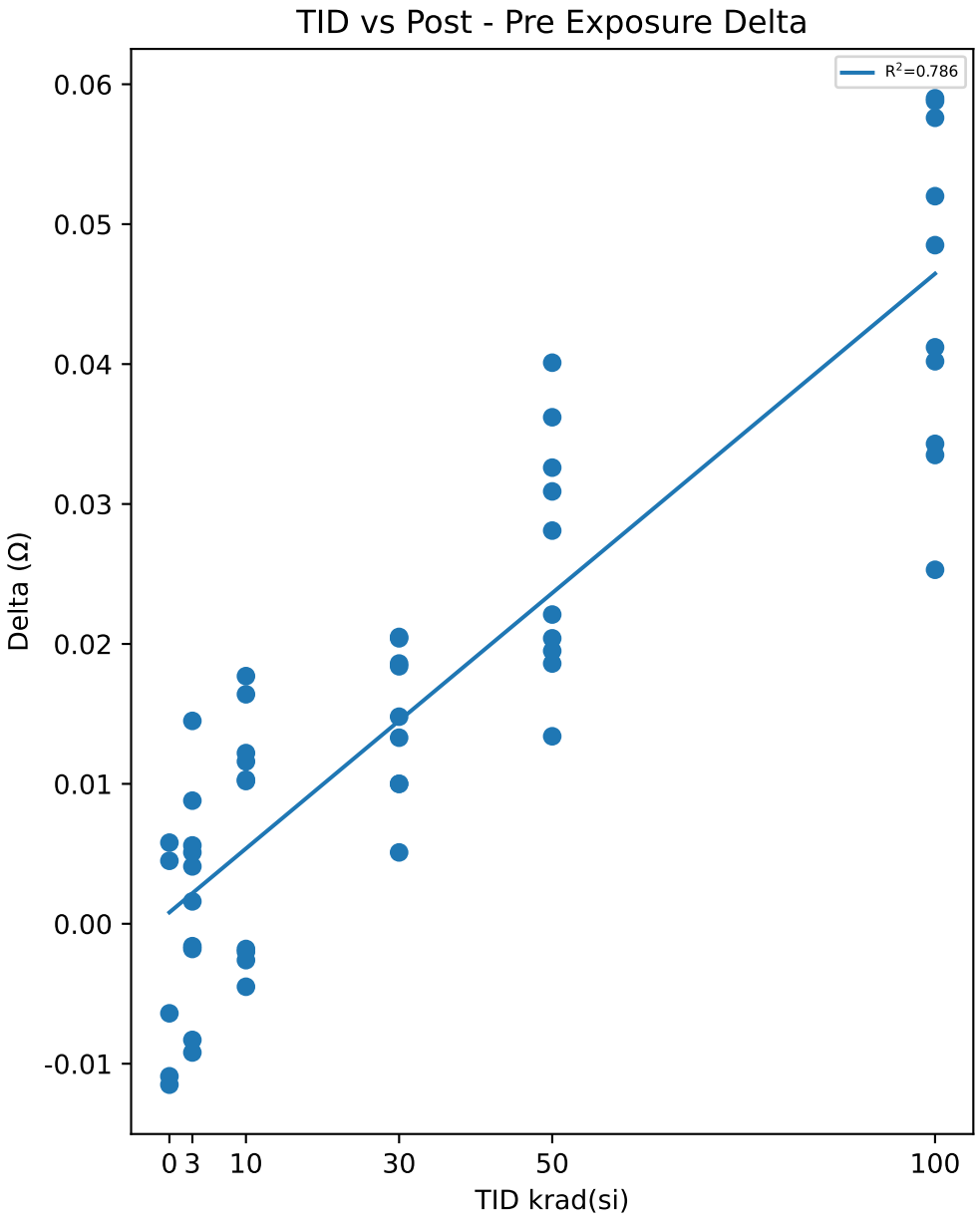


Test Statistics (Ω)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.5994	1.6134	1.6402	0.016496	1.5837	1.5972	1.6045	0.0085263	-0.0457	-0.01626	-0.0016	0.0173
3	1.5952	1.6042	1.6142	0.0062378	1.5644	1.5848	1.6042	0.017367	-0.0496	-0.01943	0.0002	0.019242
10	1.5992	1.6115	1.6313	0.010098	1.5575	1.5841	1.5989	0.014191	-0.0531	-0.02731	-0.0042	0.015965
30	1.5963	1.6087	1.6218	0.0085423	1.5395	1.5705	1.5978	0.019413	-0.0694	-0.038233	-0.0147	0.0214
50	1.6012	1.6173	1.6438	0.013885	1.5088	1.5649	1.587	0.024369	-0.0924	-0.05243	-0.0259	0.021387
100	1.5872	1.6109	1.633	0.013273	1.5253	1.5575	1.5889	0.020723	-0.0893	-0.05349	-0.0322	0.018853

Device Test: 23.23 LEVEL|HS_RDSON/OUTH/12/12/500/0/5/500kHz//@ROH





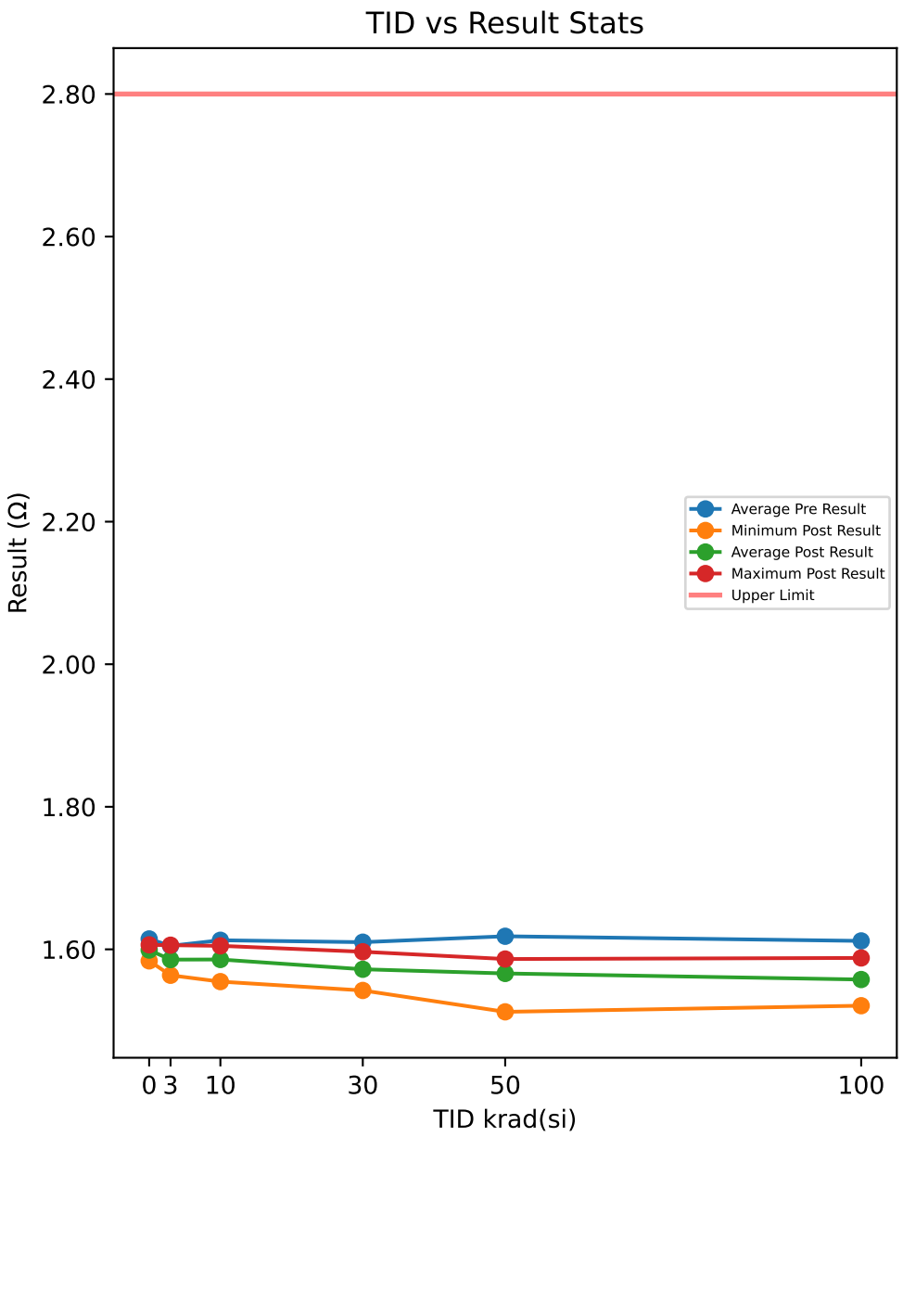
Test Results (Upper Limit = 4.7 (Ω))

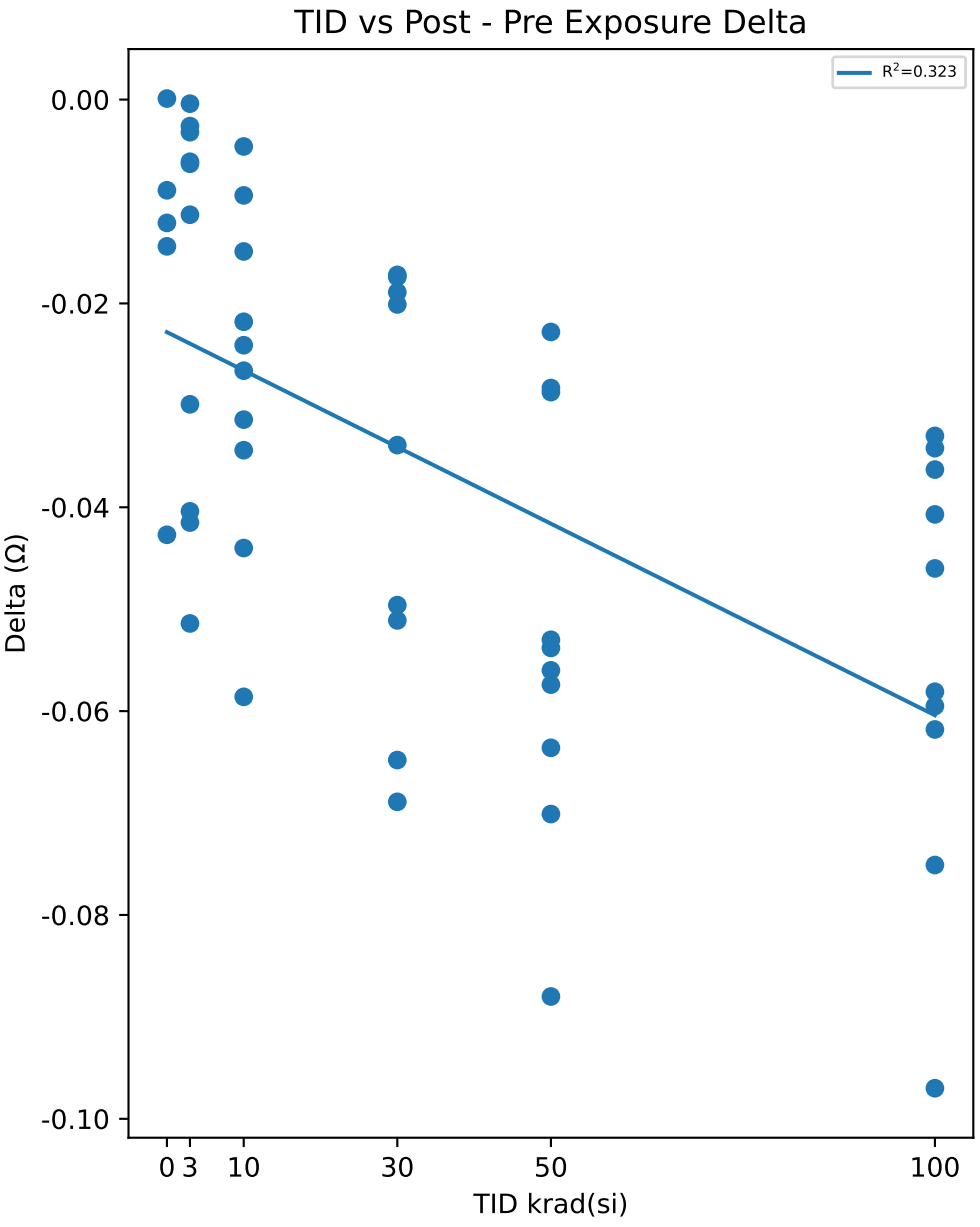
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	2.3665	2.3991	0.0326
411	100	Unbiased	2.3463	2.3798	0.0335
444	30	Unbiased	2.3387	2.3487	0.01
454	10	Unbiased	2.3652	2.3774	0.0122
491	3	Unbiased	2.3514	2.3602	0.0088
500	100	Unbiased	2.3442	2.3844	0.0402
534	100	Biased	2.3608	2.4128	0.052
558	0	Correlation	2.3517	2.3562	0.0045
563	100	Biased	2.343	2.3915	0.0485
570	3	Unbiased	2.3538	2.3554	0.0016
614	10	Unbiased	2.3467	2.3449	-0.0018
675	3	Biased	2.3562	2.3707	0.0145
713	100	Unbiased	2.3756	2.4009	0.0253
744	50	Biased	2.3634	2.4035	0.0401
799	50	Biased	2.3825	2.402	0.0195
842	30	Unbiased	2.3761	2.3945	0.0184
889	3	Unbiased	2.3757	2.3674	-0.0083
901	3	Biased	2.3325	2.3376	0.0051
930	50	Unbiased	2.3472	2.3753	0.0281
968	100	Unbiased	2.3471	2.3883	0.0412
976	100	Unbiased	2.3722	2.4065	0.0343
981	3	Biased	2.3511	2.3495	-0.0016
1003	10	Biased	2.3629	2.3793	0.0164
1039	3	Biased	2.3677	2.3659	-0.0018
1053	100	Biased	2.3524	2.4112	0.0588
1056	0	Correlation	2.3699	2.3635	-0.0064
1072	10	Biased	2.4057	2.4012	-0.0045
1095	50	Unbiased	2.3657	2.3878	0.0221
1099	0	Correlation	2.3699	2.3584	-0.0115
1113	3	Biased	2.3818	2.3859	0.0041
1142	10	Unbiased	2.3376	2.3492	0.0116
1154	10	Biased	2.3666	2.3769	0.0103
1215	50	Unbiased	2.3563	2.3749	0.0186
1222	100	Biased	2.3484	2.406	0.0576
1229	50	Unbiased	2.3651	2.3785	0.0134
1255	3	Unbiased	2.3601	2.3509	-0.0092
1331	30	Unbiased	2.3624	2.3724	0.01
1359	30	Biased	2.3512	2.3698	0.0186
1375	30	Unbiased	2.3666	2.3717	0.0051
1398	30	Biased	2.3441	2.3646	0.0205
1411	50	Biased	2.3616	2.3925	0.0309
1465	10	Unbiased	2.3628	2.3602	-0.0026
1474	50	Biased	2.3682	2.4044	0.0362
1504	50	Biased	2.3625	2.3829	0.0204
1540	100	Biased	2.3355	2.3945	0.059
1554	3	Unbiased	2.3547	2.3603	0.0056
1662	30	Biased	2.3687	2.3891	0.0204
1679	10	Biased	2.3682	2.3784	0.0102
1697	10	Biased	2.3694	2.3674	-0.002
1703	30	Biased	2.3608	2.3741	0.0133
1704	10	Unbiased	2.3507	2.3684	0.0177
1736	30	Biased	2.3697	2.3845	0.0148
1737	0	Correlation	2.3706	2.3597	-0.0109
1748	0	Correlation	2.3505	2.3563	0.0058

Test Statistics (Ω)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2.3505	2.3625	2.3706	0.010438	2.3562	2.3588	2.3635	0.0030028	-0.0115	-0.0037	0.0058	0.0083286
3	2.3325	2.3585	2.3818	0.01394	2.3376	2.3604	2.3859	0.01329	-0.0092	0.00188	0.0145	0.0073667
10	2.3376	2.3636	2.4057	0.01816	2.3449	2.3703	2.4012	0.016329	-0.0045	0.00675	0.0177	0.0085271
30	2.3387	2.3598	2.3761	0.012563	2.3487	2.3744	2.3945	0.013744	0.0051	0.014567	0.0205	0.0053988
50	2.3472	2.3639	2.3825	0.0089445	2.3749	2.3901	2.4044	0.011805	0.0134	0.02619	0.0401	0.0086719
100	2.3355	2.3525	2.3756	0.013009	2.3798	2.3976	2.4128	0.011552	0.0253	0.04504	0.059	0.01192

Device Test: 23.24 LEVEL|LS_RDSON/OUTL/12/12/500/0/5/500kHz//@ROL





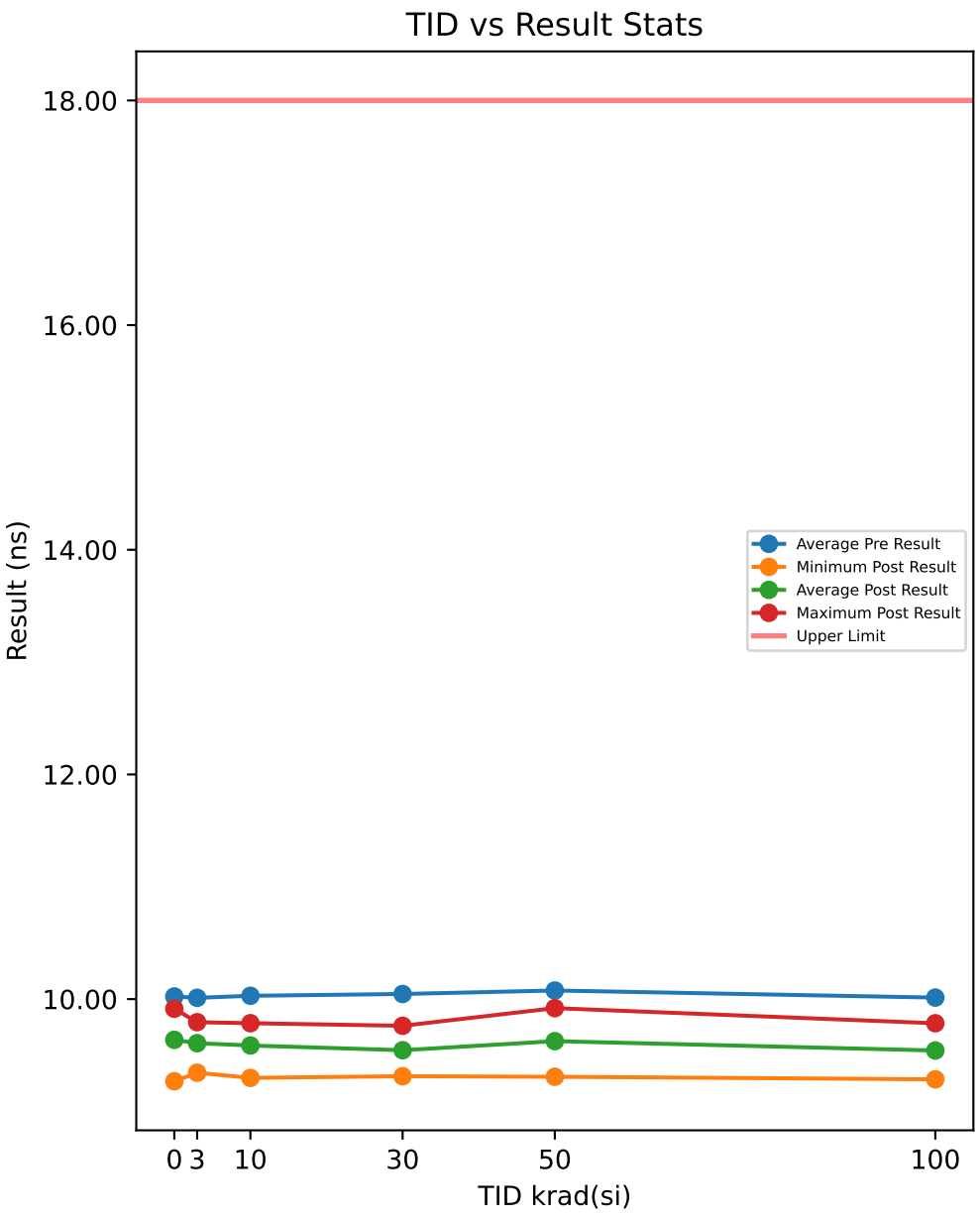
Test Results (Upper Limit = 2.8 (Ω))

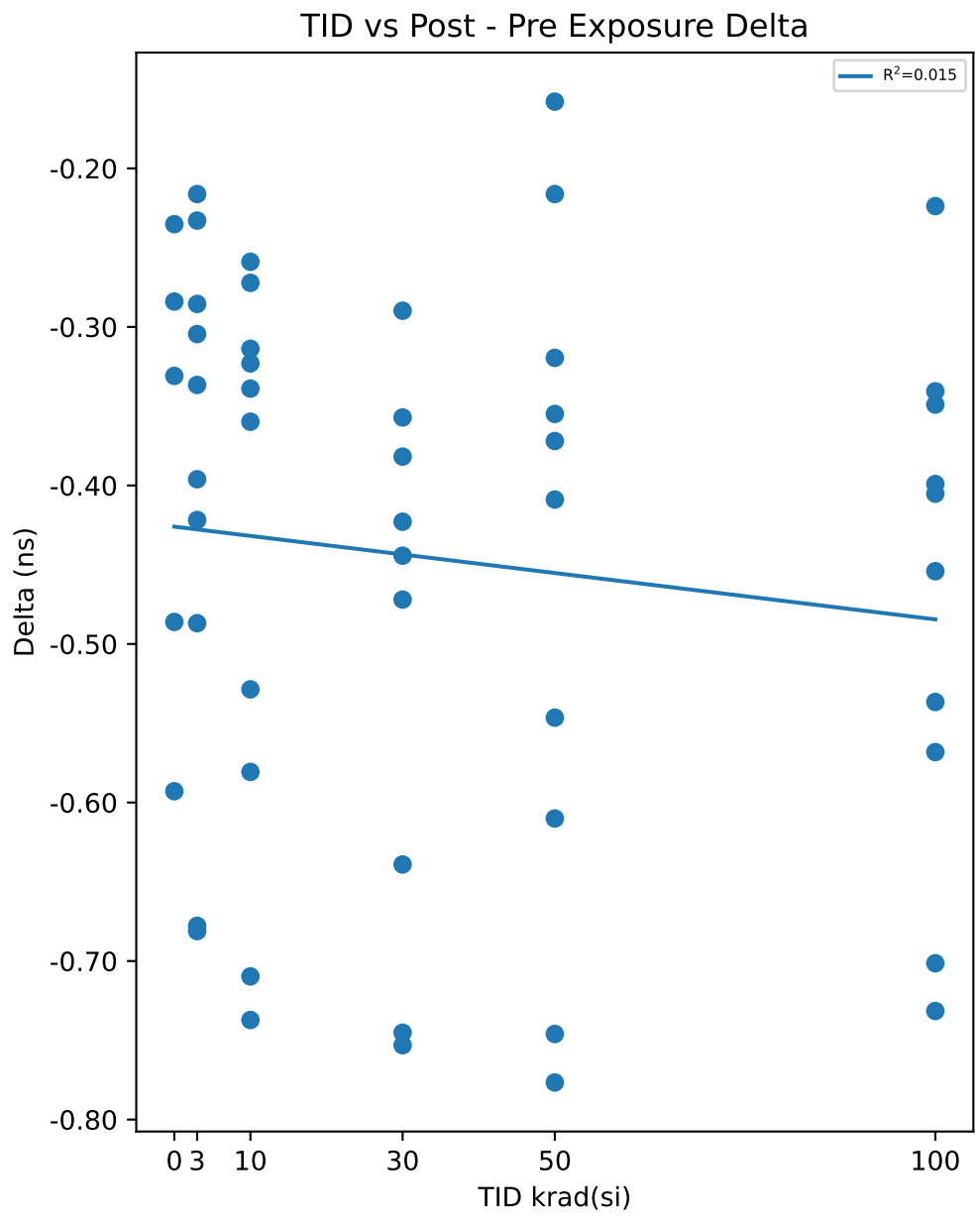
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	1.6172	1.5634	-0.0538
411	100	Unbiased	1.6145	1.5738	-0.0407
444	30	Unbiased	1.6043	1.5869	-0.0174
454	10	Unbiased	1.6035	1.5989	-0.0046
491	3	Unbiased	1.6064	1.5951	-0.0113
500	100	Unbiased	1.6216	1.5853	-0.0363
534	100	Biased	1.5966	1.5385	-0.0581
558	0	Correlation	1.6207	1.6063	-0.0144
563	100	Biased	1.6079	1.5484	-0.0595
570	3	Unbiased	1.6084	1.6058	-0.0026
614	10	Unbiased	1.6165	1.6016	-0.0149
675	3	Biased	1.6082	1.5678	-0.0404
713	100	Unbiased	1.5881	1.5551	-0.033
744	50	Biased	1.6419	1.5783	-0.0636
799	50	Biased	1.6218	1.5658	-0.056
842	30	Unbiased	1.6155	1.5966	-0.0189
889	3	Unbiased	1.5971	1.5672	-0.0299
901	3	Biased	1.5982	1.595	-0.0032
930	50	Unbiased	1.6092	1.5864	-0.0228
968	100	Unbiased	1.6339	1.5879	-0.046
976	100	Unbiased	1.6025	1.5683	-0.0342
981	3	Biased	1.6041	1.5978	-0.0063
1003	10	Biased	1.6161	1.5817	-0.0344
1039	3	Biased	1.615	1.5636	-0.0514
1053	100	Biased	1.6179	1.5209	-0.097
1056	0	Correlation	1.6009	1.601	0.0001
1072	10	Biased	1.6027	1.5713	-0.0314
1095	50	Unbiased	1.6148	1.5861	-0.0287
1099	0	Correlation	1.5959	1.5838	-0.0121
1113	3	Biased	1.6085	1.567	-0.0415
1142	10	Unbiased	1.6009	1.5915	-0.0094
1154	10	Biased	1.6133	1.5547	-0.0586
1215	50	Unbiased	1.6043	1.5469	-0.0574
1222	100	Biased	1.6126	1.5375	-0.0751
1229	50	Unbiased	1.6076	1.5793	-0.0283
1255	3	Unbiased	1.5954	1.595	-0.0004
1331	30	Unbiased	1.5947	1.5775	-0.0172
1359	30	Biased	1.6071	1.5423	-0.0648
1375	30	Unbiased	1.6106	1.5905	-0.0201
1398	30	Biased	1.6008	1.5669	-0.0339
1411	50	Biased	1.6003	1.5123	-0.088
1465	10	Unbiased	1.6315	1.6049	-0.0266
1474	50	Biased	1.629	1.5589	-0.0701
1504	50	Biased	1.6372	1.5842	-0.053
1540	100	Biased	1.6225	1.5607	-0.0618
1554	3	Unbiased	1.6076	1.6015	-0.0061
1662	30	Biased	1.6226	1.5537	-0.0689
1679	10	Biased	1.608	1.5862	-0.0218
1697	10	Biased	1.6112	1.5871	-0.0241
1703	30	Biased	1.6103	1.5607	-0.0496
1704	10	Unbiased	1.6235	1.5795	-0.044
1736	30	Biased	1.6243	1.5732	-0.0511
1737	0	Correlation	1.6145	1.6056	-0.0089
1748	0	Correlation	1.6409	1.5982	-0.0427

Test Statistics (Ω)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.5959	1.6146	1.6409	0.017792	1.5838	1.599	1.6063	0.0091177	-0.0427	-0.0156	0.0001	0.01612
3	1.5954	1.6049	1.615	0.0061848	1.5636	1.5856	1.6058	0.016872	-0.0514	-0.01931	-0.0004	0.019389
10	1.6009	1.6127	1.6315	0.0096877	1.5547	1.5857	1.6049	0.015108	-0.0586	-0.02698	-0.0046	0.016177
30	1.5947	1.61	1.6243	0.0097055	1.5423	1.572	1.5966	0.01793	-0.0689	-0.037989	-0.0172	0.02103
50	1.6003	1.6183	1.6419	0.01403	1.5123	1.5662	1.5864	0.023058	-0.088	-0.05217	-0.0228	0.020452
100	1.5881	1.6118	1.6339	0.013493	1.5209	1.5576	1.5879	0.021803	-0.097	-0.05417	-0.033	0.020518

Device Test: 24.10 TIMING|OUT_FALL/OUTH/12/12/0/1000/5/500kHz//@OUT_FALL_12V





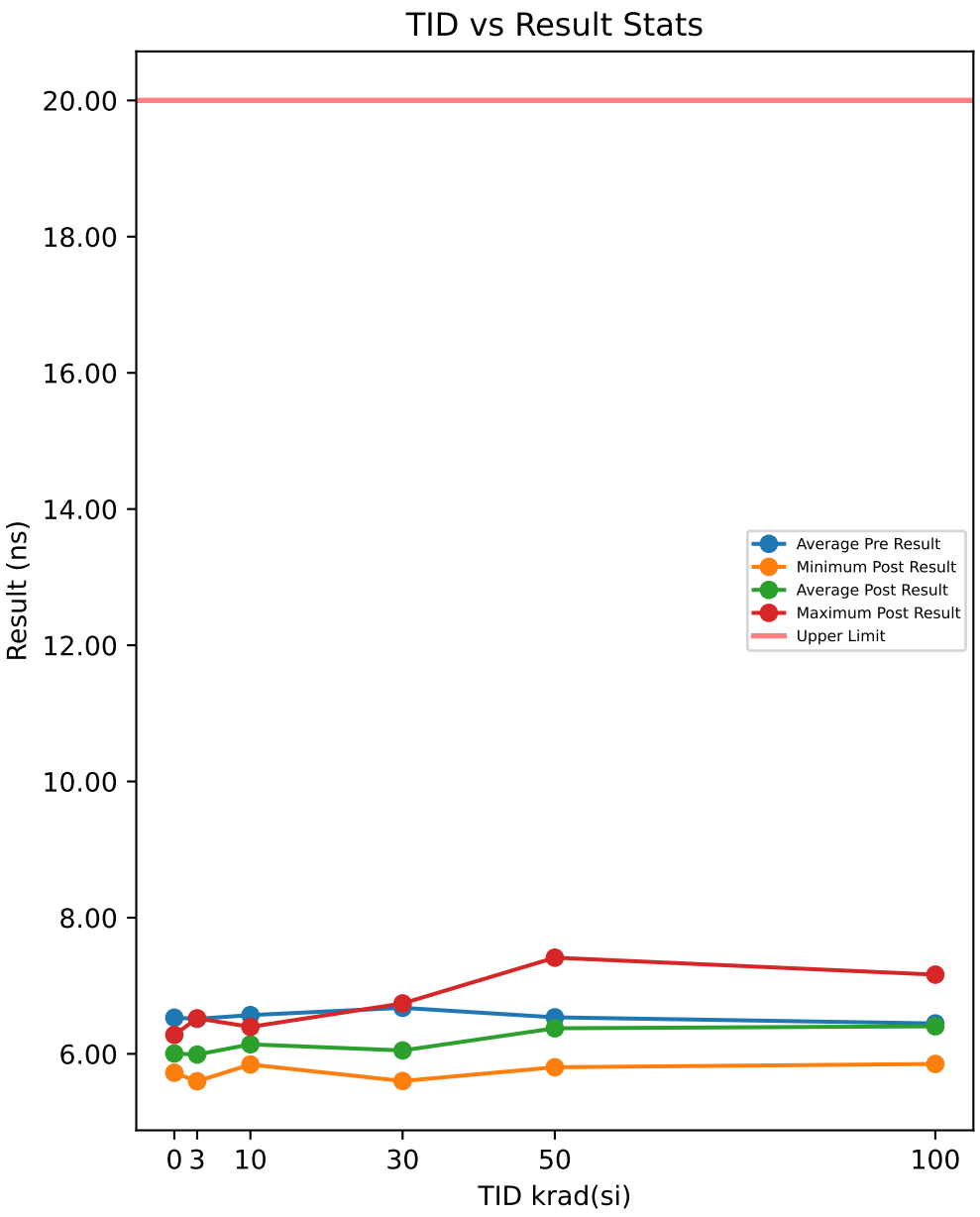
Test Results (Upper Limit = 18.0 (ns))

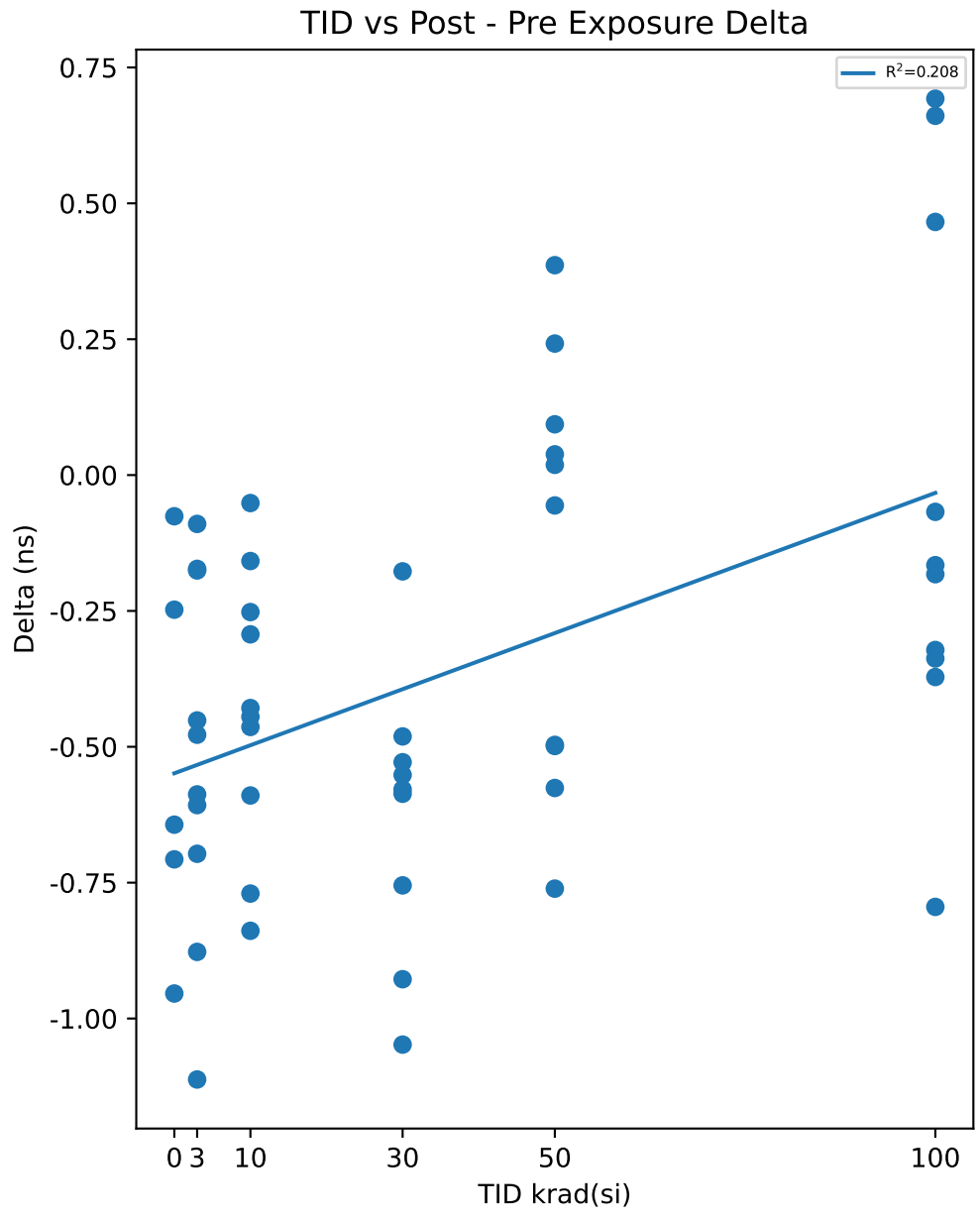
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	10.062	9.7424	-0.3195
411	100	Unbiased	9.9085	9.5094	-0.3991
444	30	Unbiased	9.9742	9.5513	-0.4229
454	10	Unbiased	10.004	9.665	-0.3389
491	3	Unbiased	9.9586	9.622	-0.3366
500	100	Unbiased	10.063	9.6574	-0.4052
534	100	Biased	9.9364	9.5958	-0.3406
558	0	Correlation	10.087	9.7561	-0.3309
563	100	Biased	10.006	9.3043	-0.7014
570	3	Unbiased	10.022	9.3445	-0.6778
614	10	Unbiased	10.131	9.3942	-0.7372
675	3	Biased	9.9502	9.7173	-0.2329
713	100	Unbiased	10.044	9.5078	-0.5366
744	50	Biased	10.182	9.8099	-0.372
799	50	Biased	10.173	9.3966	-0.7766
842	30	Unbiased	10.114	9.6425	-0.472
889	3	Unbiased	10.027	9.7415	-0.2855
901	3	Biased	9.9742	9.5781	-0.3961
930	50	Unbiased	9.9187	9.3086	-0.6101
968	100	Unbiased	10.059	9.6049	-0.4541
976	100	Unbiased	10.053	9.4847	-0.5682
981	3	Biased	10.058	9.5711	-0.4869
1003	10	Biased	9.9544	9.6314	-0.323
1039	3	Biased	10.011	9.7945	-0.2162
1053	100	Biased	10.009	9.7849	-0.2238
1056	0	Correlation	9.9509	9.6669	-0.284
1072	10	Biased	10.008	9.2987	-0.7097
1095	50	Unbiased	10.062	9.6534	-0.4089
1099	0	Correlation	9.8615	9.2686	-0.5929
1113	3	Biased	10.076	9.7719	-0.3045
1142	10	Unbiased	10.006	9.6926	-0.3138
1154	10	Biased	10.058	9.7854	-0.2722
1215	50	Unbiased	9.9845	9.7683	-0.2162
1222	100	Biased	10.018	9.286	-0.7315
1229	50	Unbiased	10.085	9.3392	-0.746
1255	3	Unbiased	9.9545	9.5327	-0.4218
1331	30	Unbiased	9.9611	9.322	-0.6391
1359	30	Biased	10.052	9.7624	-0.2898
1375	30	Unbiased	9.9763	9.532	-0.4443
1398	30	Biased	10.004	9.6217	-0.3818
1411	50	Biased	9.8549	9.697	-0.1579
1465	10	Unbiased	10.027	9.4468	-0.5807
1474	50	Biased	10.274	9.9196	-0.3549
1504	50	Biased	10.169	9.6222	-0.5465
1540	100	Biased	10.038	9.6894	-0.349
1554	3	Unbiased	10.081	9.3999	-0.6811
1662	30	Biased	10.094	9.7369	-0.3571
1679	10	Biased	10.036	9.6761	-0.3598
1697	10	Biased	10.07	9.5417	-0.5286
1703	30	Biased	10.067	9.3135	-0.7531
1704	10	Unbiased	9.9986	9.7397	-0.2589
1736	30	Biased	10.167	9.422	-0.7452
1737	0	Correlation	10.067	9.5811	-0.4861
1748	0	Correlation	10.149	9.9143	-0.2352

Test Statistics (ns)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	9.8615	10.023	10.149	0.11547	9.2686	9.6374	9.9143	0.24022	-0.5929	-0.38582	-0.2352	0.14917
3	9.9502	10.011	10.081	0.050286	9.3445	9.6074	9.7945	0.15358	-0.6811	-0.40394	-0.2162	0.16734
10	9.9544	10.029	10.131	0.048433	9.2987	9.5872	9.7854	0.16049	-0.7372	-0.44228	-0.2589	0.18132
30	9.9611	10.046	10.167	0.071741	9.3135	9.5449	9.7624	0.16513	-0.7531	-0.50059	-0.2898	0.17027
50	9.8549	10.077	10.274	0.12958	9.3086	9.6257	9.9196	0.20956	-0.7766	-0.45086	-0.1579	0.21162
100	9.9085	10.013	10.063	0.052364	9.286	9.5425	9.7849	0.15932	-0.7315	-0.47095	-0.2238	0.16244

Device Test: 24.11 TIMING|OUT_RISE/OUTH/14/14/0/1000/5/500kHz//@OUT_RISE_14V





Test Results (Upper Limit = 20.0 (ns))

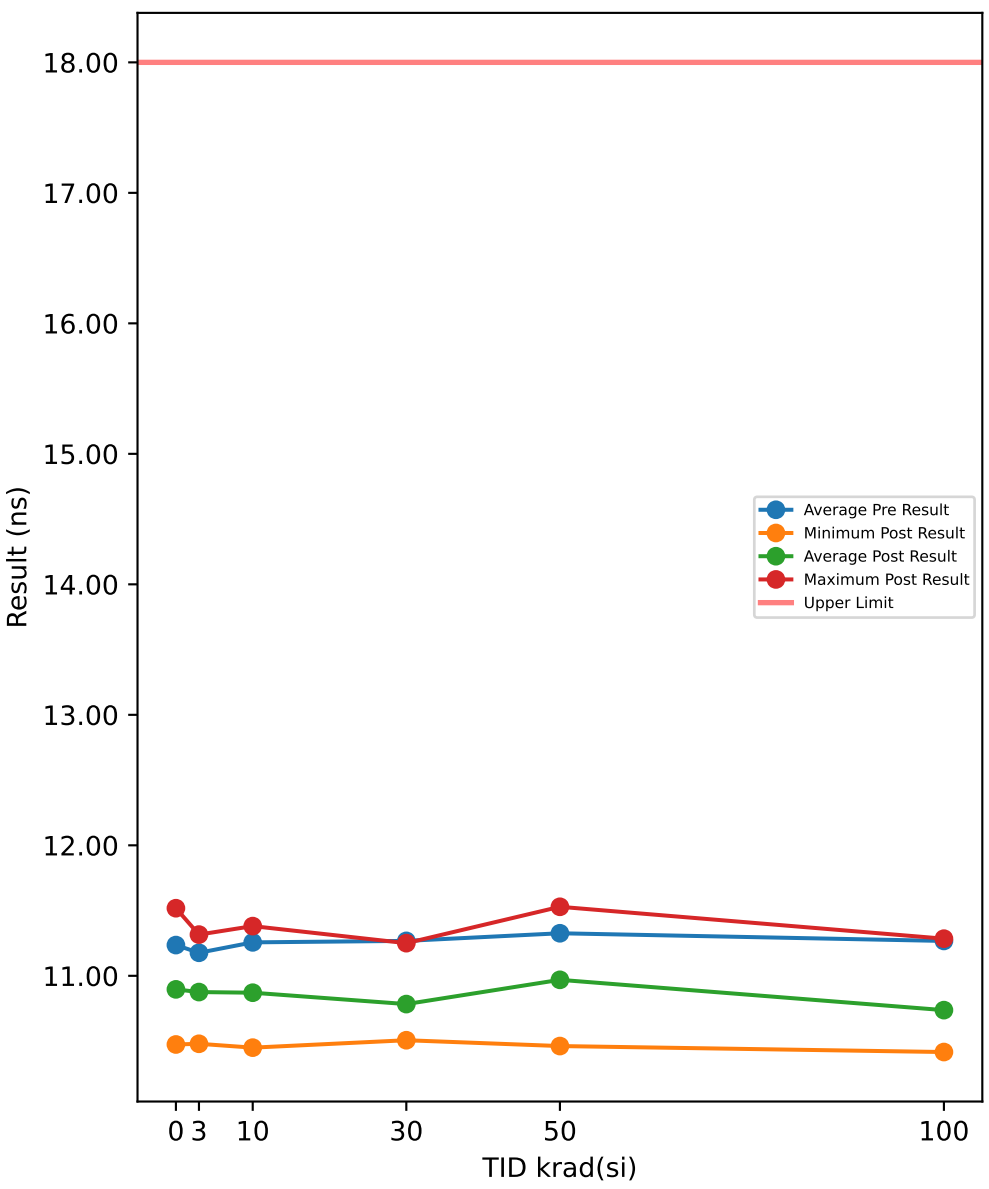
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	7.0264	7.4126	0.3862
411	100	Unbiased	6.2492	5.9117	-0.3375
444	30	Unbiased	6.6493	5.6013	-1.048
454	10	Unbiased	6.6485	6.3964	-0.2521
491	3	Unbiased	6.1738	5.9983	-0.1755
500	100	Unbiased	6.7665	6.5841	-0.1824
534	100	Biased	6.5366	6.4689	-0.0677
558	0	Correlation	6.1486	6.0728	-0.0758
563	100	Biased	6.6465	5.8519	-0.7946
570	3	Unbiased	6.5607	5.8638	-0.6969
614	10	Unbiased	6.3795	5.9508	-0.4287
675	3	Biased	6.1549	5.9823	-0.1726
713	100	Unbiased	6.2725	5.9506	-0.3219
744	50	Biased	6.4416	6.4797	0.0381
799	50	Biased	6.8825	6.3067	-0.5758
842	30	Unbiased	7.3192	6.7409	-0.5783
889	3	Unbiased	6.4812	6.3913	-0.0899
901	3	Biased	6.7099	5.5977	-1.1122
930	50	Unbiased	5.8767	5.8955	0.0188
968	100	Unbiased	6.0306	6.7232	0.6926
976	100	Unbiased	6.4601	6.9259	0.4658
981	3	Biased	6.2595	5.808	-0.4515
1003	10	Biased	6.3445	6.1863	-0.1582
1039	3	Biased	6.7339	6.1266	-0.6073
1053	100	Biased	6.5025	7.1636	0.6611
1056	0	Correlation	6.5264	6.2787	-0.2477
1072	10	Biased	6.7735	5.9349	-0.8386
1095	50	Unbiased	6.4659	6.5593	0.0934
1099	0	Correlation	6.6771	5.7231	-0.954
1113	3	Biased	6.9988	6.521	-0.4778
1142	10	Unbiased	6.6426	6.053	-0.5896
1154	10	Biased	6.8269	6.3822	-0.4447
1215	50	Unbiased	6.5429	6.0464	-0.4965
1222	100	Biased	6.6103	6.4445	-0.1658
1229	50	Unbiased	6.5643	5.8033	-0.761
1255	3	Unbiased	6.6722	5.7948	-0.8774
1331	30	Unbiased	6.7181	5.9631	-0.755
1359	30	Biased	6.6601	6.0737	-0.5864
1375	30	Unbiased	6.6093	6.0575	-0.5518
1398	30	Biased	6.8852	5.9575	-0.9277
1411	50	Biased	6.1589	6.103	-0.0559
1465	10	Unbiased	6.9472	6.1771	-0.7701
1474	50	Biased	6.7089	6.9509	0.242
1504	50	Biased	6.6967	6.1981	-0.4986
1540	100	Biased	6.3908	6.0192	-0.3716
1554	3	Unbiased	6.399	5.8114	-0.5876
1662	30	Biased	6.642	6.4648	-0.1772
1679	10	Biased	6.5398	6.2467	-0.2931
1697	10	Biased	6.3071	5.8436	-0.4635
1703	30	Biased	6.3544	5.826	-0.5284
1704	10	Unbiased	6.28	6.2285	-0.0515
1736	30	Biased	6.2465	5.7656	-0.4809
1737	0	Correlation	6.5416	5.8983	-0.6433
1748	0	Correlation	6.7595	6.0524	-0.7071

Test Statistics (ns)

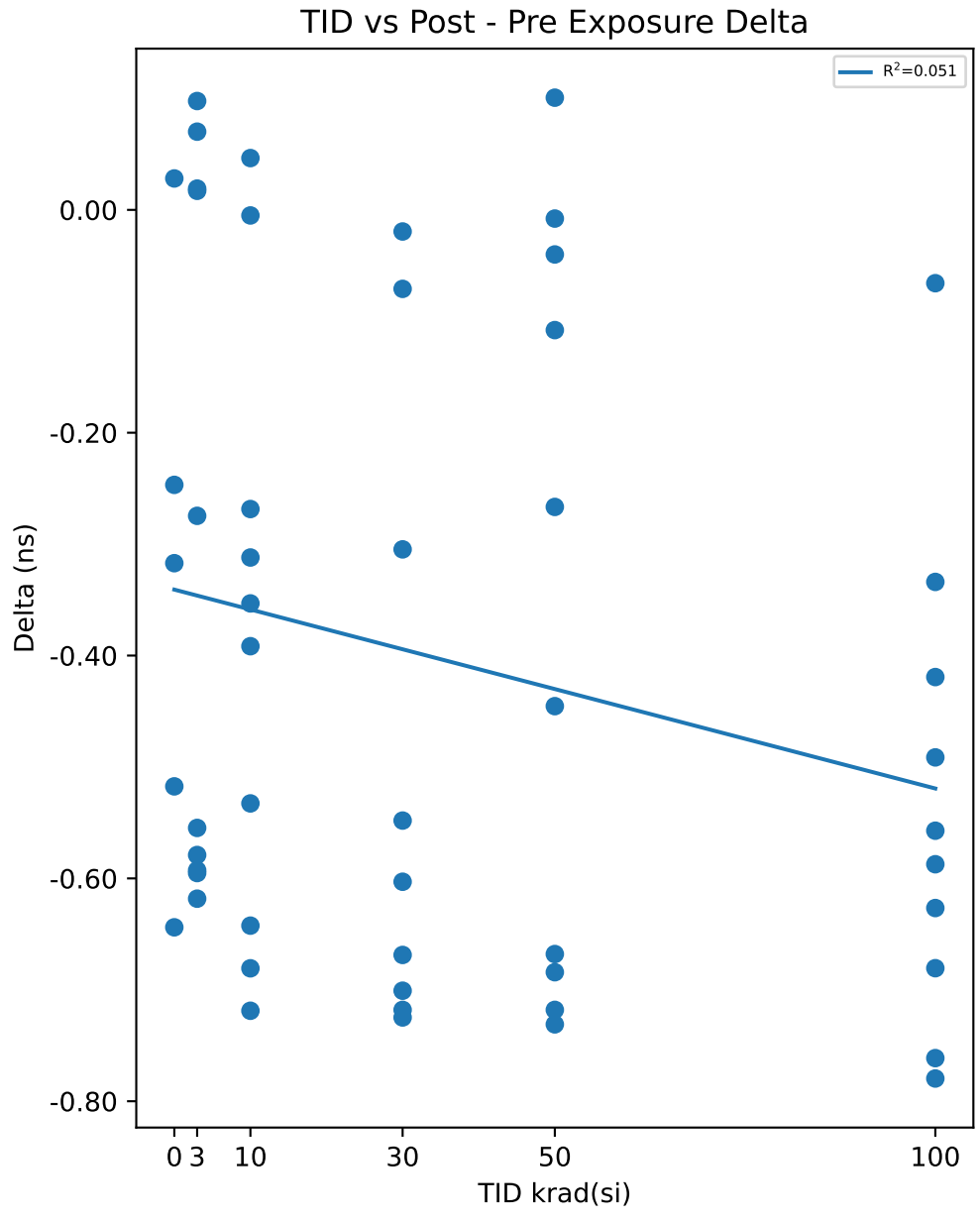
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	6.1486	6.5306	6.7595	0.23448	5.7231	6.0051	6.2787	0.20773	-0.954	-0.52558	-0.0758	0.35703
3	6.1549	6.5144	6.9988	0.2734	5.5977	5.9895	6.521	0.28572	-1.1122	-0.52487	-0.0899	0.32532
10	6.28	6.569	6.9472	0.23626	5.8436	6.14	6.3964	0.18869	-0.8386	-0.42901	-0.0515	0.25319
30	6.2465	6.676	7.3192	0.30694	5.6013	6.05	6.7409	0.35329	-1.048	-0.62597	-0.1772	0.25669
50	5.8767	6.5365	7.0264	0.33464	5.8033	6.3755	7.4126	0.49754	-0.761	-0.16093	0.3862	0.3899
100	6.0306	6.4466	6.7665	0.21755	5.8519	6.4044	7.1636	0.4583	-0.7946	-0.0422	0.6926	0.49083

Device Test: 24.12 TIMING|OUT_FALL/OUTH/14/14/0/1000/5/500kHz//@OUT_FALL_14V

TID vs Result Stats



TID vs Post - Pre Exposure Delta



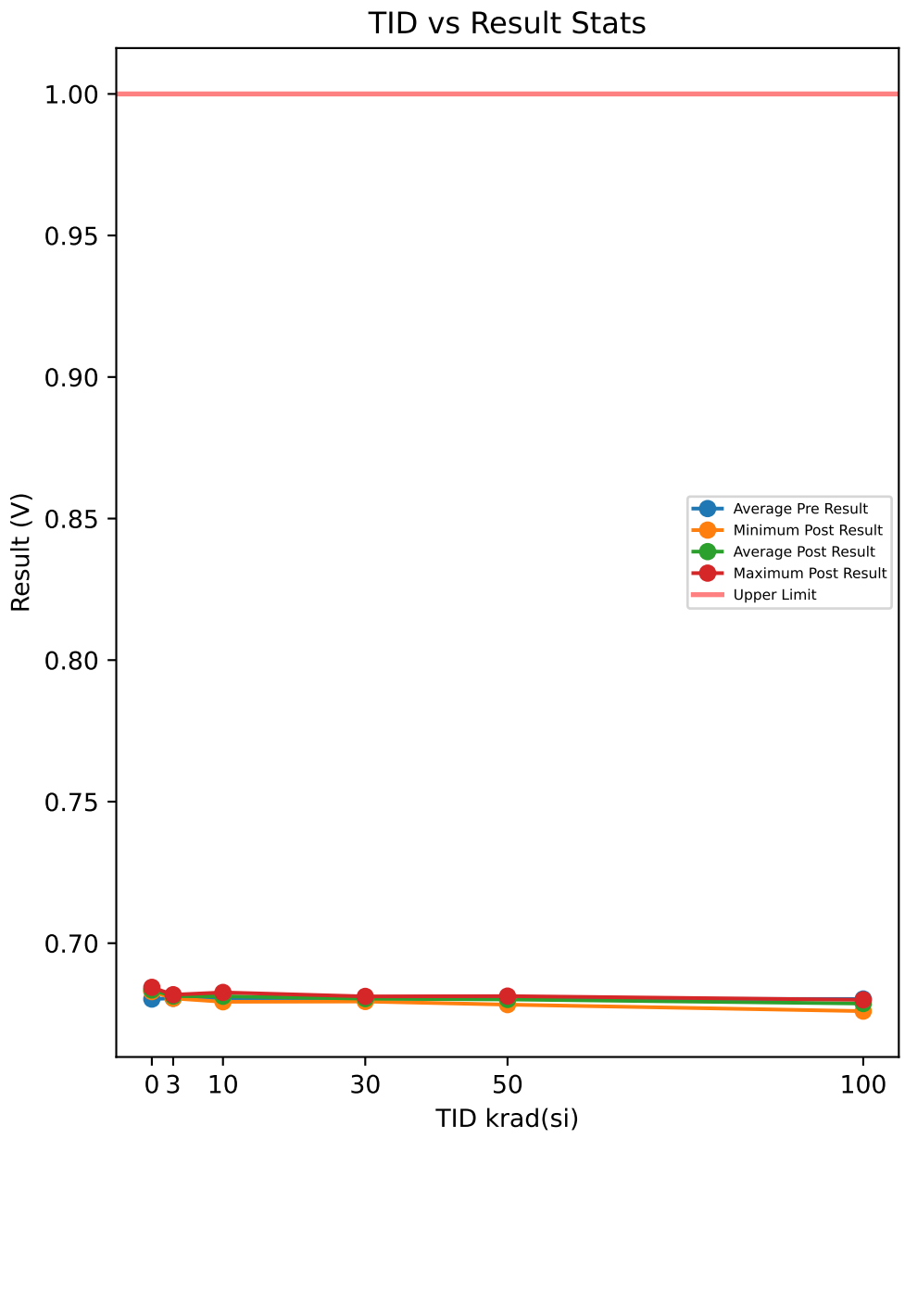
Test Results (Upper Limit = 18.0 (ns))

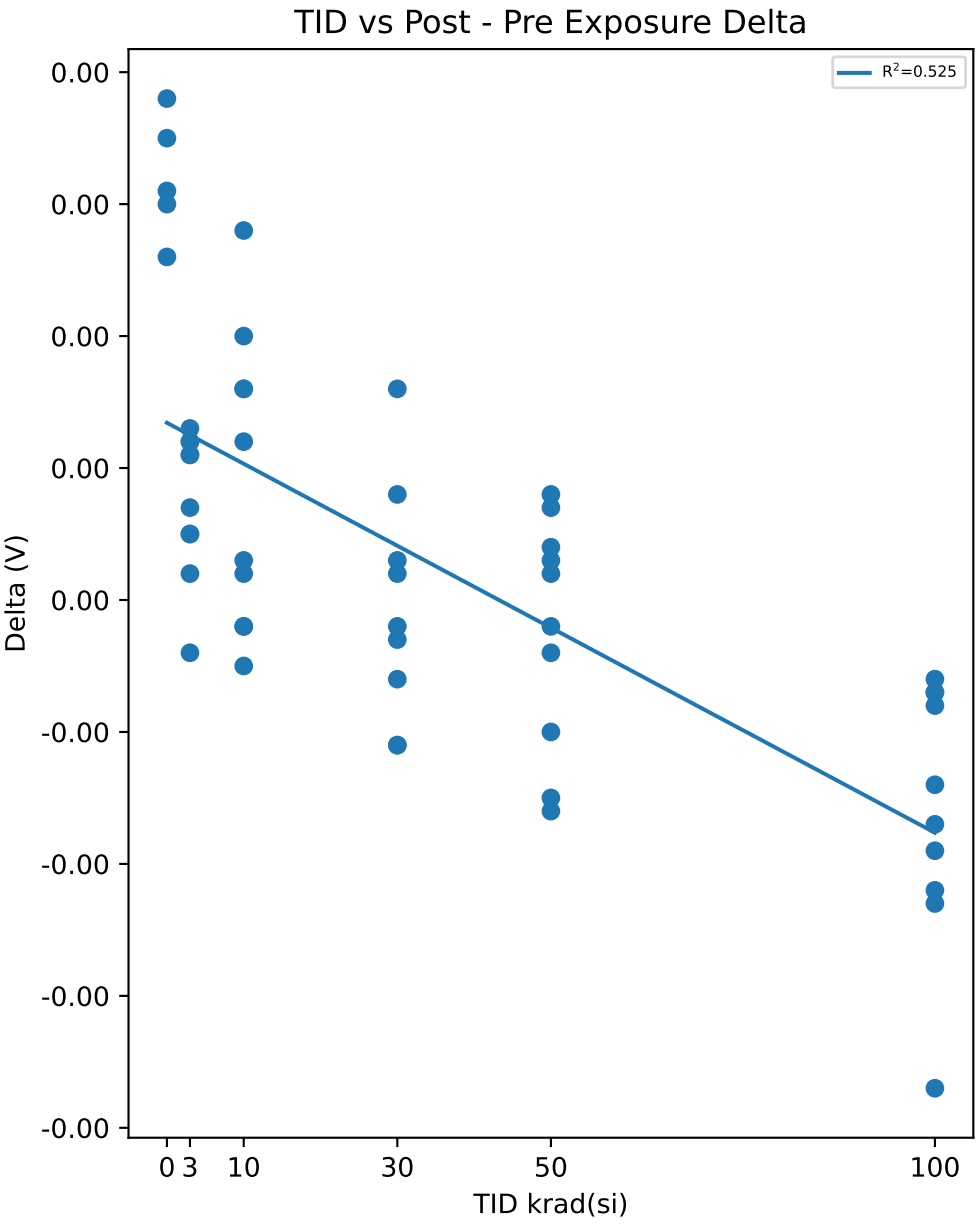
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	11.206	11.198	-0.0078
411	100	Unbiased	11.234	10.554	-0.6806
444	30	Unbiased	11.232	10.531	-0.7008
454	10	Unbiased	11.228	10.96	-0.2685
491	3	Unbiased	11.099	10.825	-0.2746
500	100	Unbiased	11.506	10.919	-0.5873
534	100	Biased	11.123	10.789	-0.3339
558	0	Correlation	11.273	11.027	-0.2468
563	100	Biased	11.242	10.462	-0.7796
570	3	Unbiased	11.097	10.479	-0.6182
614	10	Unbiased	11.306	10.664	-0.6424
675	3	Biased	11.299	11.316	0.0171
713	100	Unbiased	11.173	10.546	-0.6266
744	50	Biased	11.552	11.107	-0.4454
799	50	Biased	11.383	10.652	-0.731
842	30	Unbiased	11.478	10.753	-0.7248
889	3	Unbiased	11.133	11.204	0.0702
901	3	Biased	11.159	10.567	-0.5927
930	50	Unbiased	11.13	10.462	-0.6679
968	100	Unbiased	11.393	10.901	-0.4914
976	100	Unbiased	11.087	10.53	-0.5572
981	3	Biased	11.151	10.572	-0.579
1003	10	Biased	11.241	10.85	-0.3916
1039	3	Biased	11.281	11.3	0.0191
1053	100	Biased	11.35	11.285	-0.0658
1056	0	Correlation	11.067	10.75	-0.3171
1072	10	Biased	11.168	10.45	-0.7188
1095	50	Unbiased	11.193	10.926	-0.2666
1099	0	Correlation	11.118	10.474	-0.6439
1113	3	Biased	11.211	11.309	0.0977
1142	10	Unbiased	11.222	10.869	-0.3532
1154	10	Biased	11.334	11.381	0.0465
1215	50	Unbiased	11.222	11.182	-0.04
1222	100	Biased	11.177	10.416	-0.7613
1229	50	Unbiased	11.301	10.617	-0.6842
1255	3	Unbiased	11.098	10.543	-0.5547
1331	30	Unbiased	11.23	10.512	-0.718
1359	30	Biased	11.317	11.246	-0.0709
1375	30	Unbiased	11.163	10.614	-0.5481
1398	30	Biased	11.207	10.902	-0.3047
1411	50	Biased	10.994	11.095	0.1007
1465	10	Unbiased	11.42	10.739	-0.6807
1474	50	Biased	11.637	11.529	-0.1079
1504	50	Biased	11.642	10.924	-0.718
1540	100	Biased	11.387	10.967	-0.4193
1554	3	Unbiased	11.236	10.641	-0.5952
1662	30	Biased	11.27	11.25	-0.0194
1679	10	Biased	11.255	10.943	-0.312
1697	10	Biased	11.194	10.661	-0.5327
1703	30	Biased	11.175	10.506	-0.6687
1704	10	Unbiased	11.195	11.19	-0.005
1736	30	Biased	11.338	10.735	-0.603
1737	0	Correlation	11.23	10.712	-0.5174
1748	0	Correlation	11.49	11.518	0.0282

Test Statistics (ns)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	11.067	11.236	11.49	0.16457	10.474	10.896	11.518	0.39911	-0.6439	-0.3394	0.0282	0.25914
3	11.097	11.177	11.299	0.075965	10.479	10.875	11.316	0.36249	-0.6182	-0.30103	0.0977	0.31885
10	11.168	11.256	11.42	0.076787	10.45	10.871	11.381	0.27018	-0.7188	-0.38584	0.0465	0.26614
30	11.163	11.268	11.478	0.098496	10.506	10.783	11.25	0.29398	-0.7248	-0.48427	-0.0194	0.2808
50	10.994	11.326	11.642	0.22194	10.462	10.969	11.529	0.32179	-0.731	-0.35681	0.1007	0.33063
100	11.087	11.267	11.506	0.13585	10.416	10.737	11.285	0.28035	-0.7796	-0.5303	-0.0658	0.2159

Device Test: 24.13 VOLTAGE|OUT_CLAMP/OUTL/0/0/0/0/0/0//@OUT_CLAMP_0V





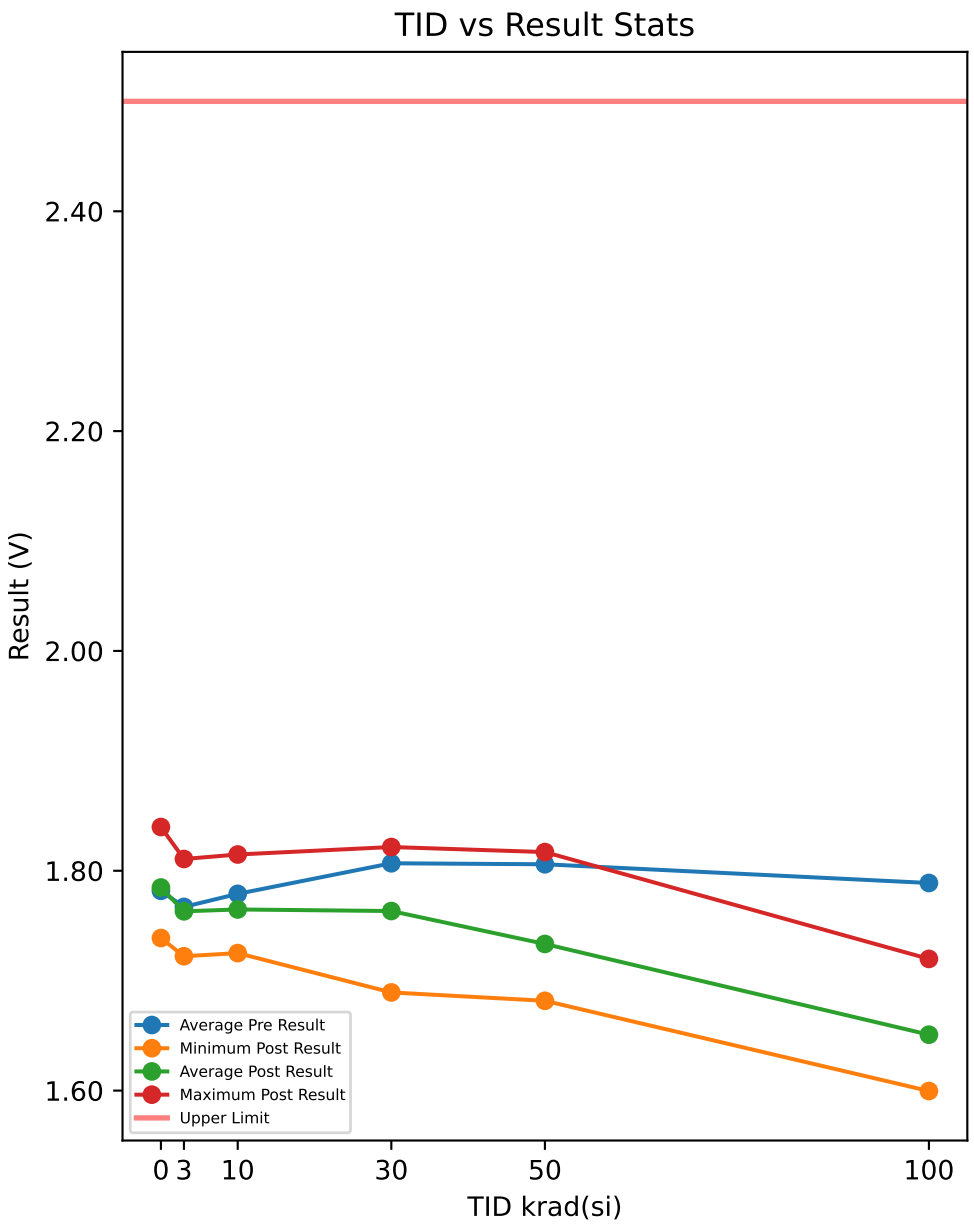
Test Results (Upper Limit = 1.0 (V))

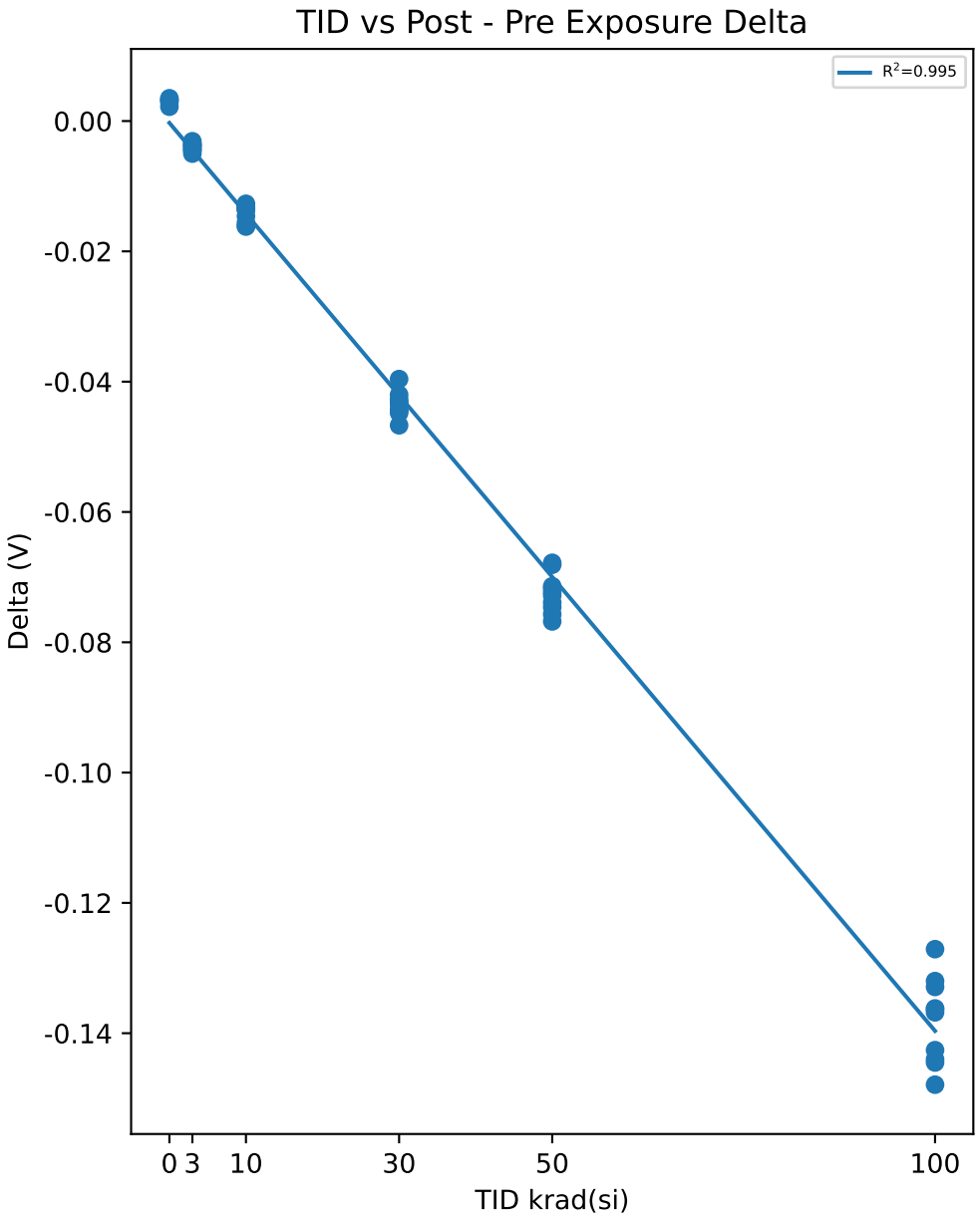
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	0.6799	0.6795	-0.0004
411	100	Unbiased	0.6805	0.6799	-0.0006
444	30	Unbiased	0.6804	0.6802	-0.0002
454	10	Unbiased	0.6795	0.6793	-0.0002
491	3	Unbiased	0.6805	0.6817	0.0012
500	100	Unbiased	0.6796	0.6777	-0.0019
534	100	Biased	0.6797	0.676	-0.0037
558	0	Correlation	0.6801	0.6832	0.0031
563	100	Biased	0.6796	0.6774	-0.0022
570	3	Unbiased	0.681	0.6815	0.0005
614	10	Unbiased	0.6801	0.6817	0.0016
675	3	Biased	0.6803	0.6805	0.0002
713	100	Unbiased	0.6799	0.6791	-0.0008
744	50	Biased	0.6799	0.6783	-0.0016
799	50	Biased	0.6799	0.6797	-0.0002
842	30	Unbiased	0.6809	0.6812	0.0003
889	3	Unbiased	0.6803	0.6816	0.0013
901	3	Biased	0.681	0.6806	-0.0004
930	50	Unbiased	0.6799	0.6789	-0.001
968	100	Unbiased	0.6803	0.6796	-0.0007
976	100	Unbiased	0.6806	0.6799	-0.0007
981	3	Biased	0.6811	0.6818	0.0007
1003	10	Biased	0.681	0.6822	0.0012
1039	3	Biased	0.6796	0.6807	0.0011
1053	100	Biased	0.6803	0.6786	-0.0017
1056	0	Correlation	0.6803	0.6829	0.0026
1072	10	Biased	0.6801	0.6817	0.0016
1095	50	Unbiased	0.6797	0.6805	0.0008
1099	0	Correlation	0.6806	0.6844	0.0038
1113	3	Biased	0.6805	0.6816	0.0011
1142	10	Unbiased	0.6813	0.6811	-0.0002
1154	10	Biased	0.6809	0.6812	0.0003
1215	50	Unbiased	0.6803	0.6807	0.0004
1222	100	Biased	0.6809	0.6786	-0.0023
1229	50	Unbiased	0.6805	0.6807	0.0002
1255	3	Unbiased	0.6802	0.6814	0.0012
1331	30	Unbiased	0.6801	0.6803	0.0002
1359	30	Biased	0.6807	0.6804	-0.0003
1375	30	Unbiased	0.6793	0.6809	0.0016
1398	30	Biased	0.6806	0.68	-0.0006
1411	50	Biased	0.68	0.6807	0.0007
1465	10	Unbiased	0.6798	0.6826	0.0028
1474	50	Biased	0.6824	0.6809	-0.0015
1504	50	Biased	0.681	0.6813	0.0003
1540	100	Biased	0.6814	0.68	-0.0014
1554	3	Unbiased	0.6811	0.6816	0.0005
1662	30	Biased	0.6815	0.6804	-0.0011
1679	10	Biased	0.6804	0.6799	-0.0005
1697	10	Biased	0.6804	0.6824	0.002
1703	30	Biased	0.6805	0.6794	-0.0011
1704	10	Unbiased	0.6801	0.6803	0.0002
1736	30	Biased	0.6801	0.6809	0.0008
1737	0	Correlation	0.6805	0.6835	0.003
1748	0	Correlation	0.6798	0.6833	0.0035

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.6798	0.68026	0.6806	0.00032094	0.6829	0.68346	0.6844	0.00056833	0.0026	0.0032	0.0038	0.00046368
3	0.6796	0.68056	0.6811	0.00049035	0.6805	0.6813	0.6818	0.00049666	-0.0004	0.00074	0.0013	0.00054813
10	0.6795	0.68036	0.6813	0.00056214	0.6793	0.68124	0.6826	0.0011057	-0.0005	0.00088	0.0028	0.0011114
30	0.6793	0.68046	0.6815	0.0006085	0.6794	0.68041	0.6812	0.00054186	-0.0011	-4.4444e-05	0.0016	0.00088192
50	0.6797	0.68035	0.6824	0.00081684	0.6783	0.68012	0.6813	0.00097274	-0.0016	-0.00023	0.0008	0.00087566
100	0.6796	0.68028	0.6814	0.00059591	0.676	0.67868	0.68	0.0013139	-0.0037	-0.0016	-0.0006	0.00098093

Device Test: 24.14 VOLTAGE|OUT_CLAMP/OUTL/5/0/0/0/0/0//@OUT_CLAMP_FULL





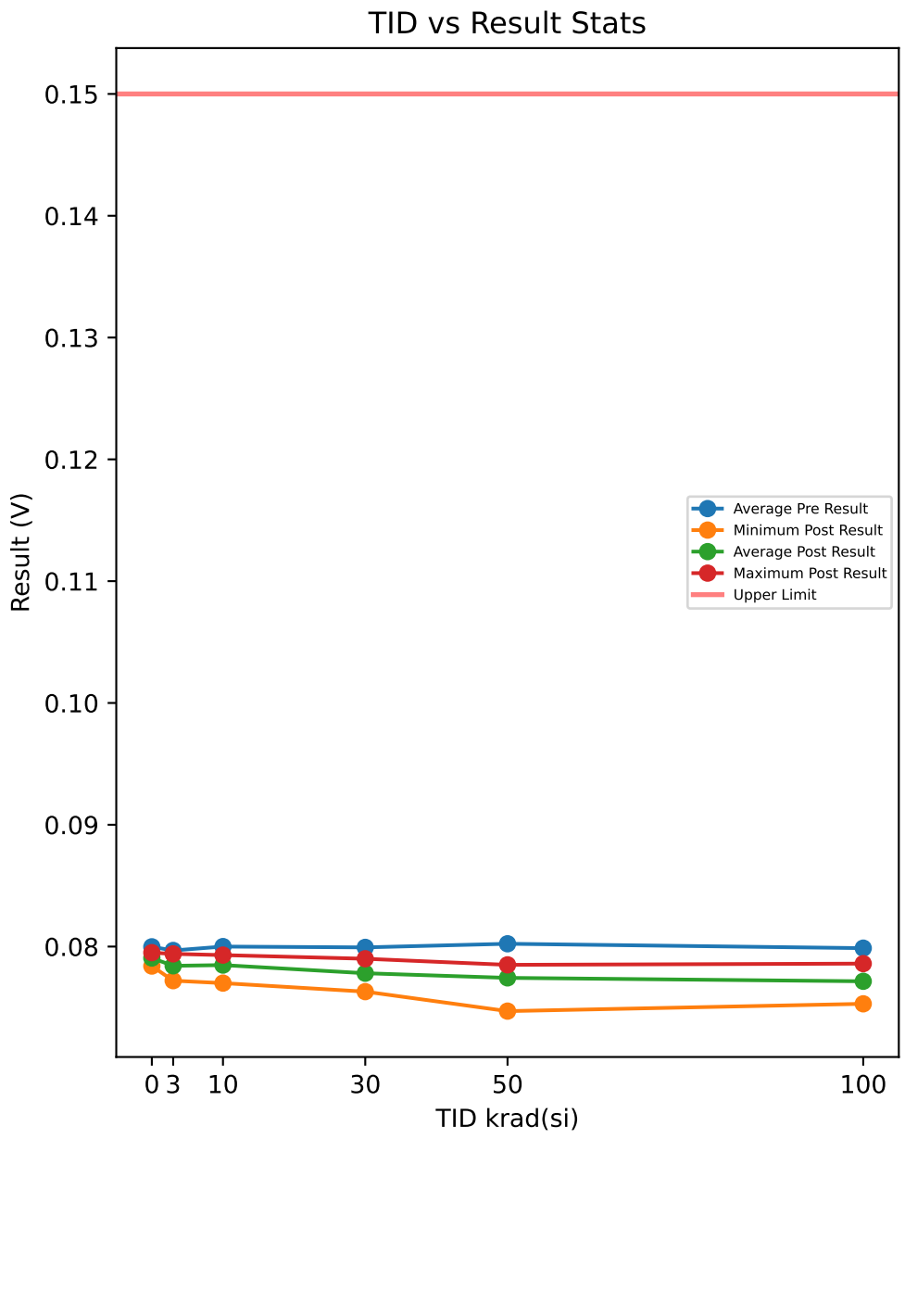
Test Results (Upper Limit = 2.5 (V))

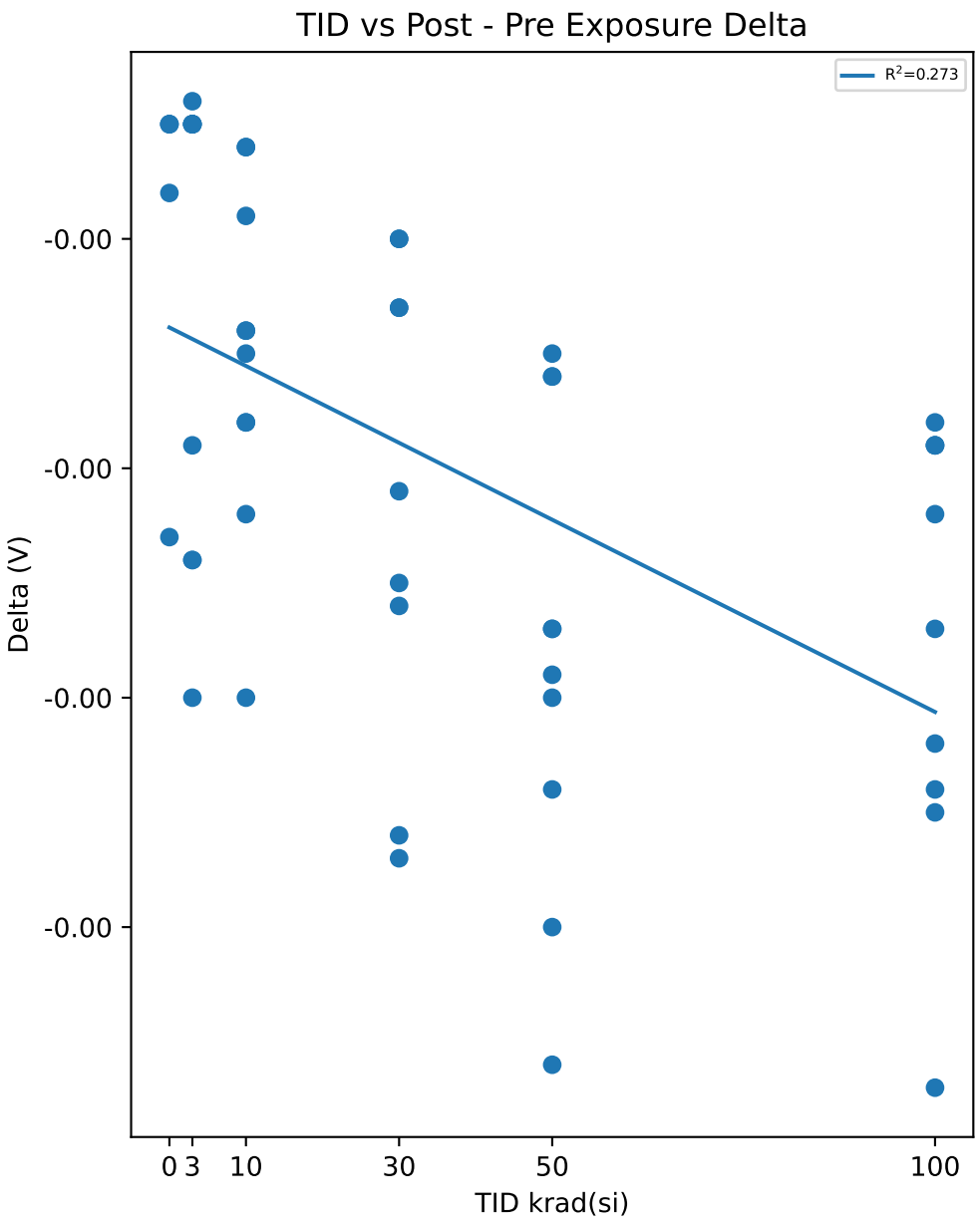
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	1.7879	1.7122	-0.0757
411	100	Unbiased	1.784	1.6361	-0.1479
444	30	Unbiased	1.8019	1.7552	-0.0467
454	10	Unbiased	1.7412	1.7251	-0.0161
491	3	Unbiased	1.758	1.7539	-0.0041
500	100	Unbiased	1.7364	1.5996	-0.1368
534	100	Biased	1.7369	1.6006	-0.1363
558	0	Correlation	1.8369	1.8398	0.0029
563	100	Biased	1.8022	1.6751	-0.1271
570	3	Unbiased	1.7264	1.7222	-0.0042
614	10	Unbiased	1.8046	1.79	-0.0146
675	3	Biased	1.7979	1.7934	-0.0045
713	100	Unbiased	1.8019	1.6593	-0.1426
744	50	Biased	1.7761	1.708	-0.0681
799	50	Biased	1.8225	1.7511	-0.0714
842	30	Unbiased	1.8548	1.81	-0.0448
889	3	Unbiased	1.8138	1.8107	-0.0031
901	3	Biased	1.7607	1.7557	-0.005
930	50	Unbiased	1.7921	1.7182	-0.0739
968	100	Unbiased	1.8145	1.6705	-0.144
976	100	Unbiased	1.7783	1.6338	-0.1445
981	3	Biased	1.7268	1.7233	-0.0035
1003	10	Biased	1.7989	1.7853	-0.0136
1039	3	Biased	1.7717	1.7681	-0.0036
1053	100	Biased	1.8089	1.6769	-0.132
1056	0	Correlation	1.7366	1.7388	0.0022
1072	10	Biased	1.7452	1.7319	-0.0133
1095	50	Unbiased	1.8067	1.7339	-0.0728
1099	0	Correlation	1.7578	1.7613	0.0035
1113	3	Biased	1.799	1.7953	-0.0037
1142	10	Unbiased	1.7715	1.7553	-0.0162
1154	10	Biased	1.8121	1.7988	-0.0133
1215	50	Unbiased	1.7585	1.6817	-0.0768
1222	100	Biased	1.7731	1.6369	-0.1362
1229	50	Unbiased	1.8218	1.7472	-0.0746
1255	3	Unbiased	1.7313	1.7275	-0.0038
1331	30	Unbiased	1.7973	1.7528	-0.0445
1359	30	Biased	1.8643	1.8216	-0.0427
1375	30	Unbiased	1.7658	1.7238	-0.042
1398	30	Biased	1.8139	1.7697	-0.0442
1411	50	Biased	1.7897	1.718	-0.0717
1465	10	Unbiased	1.7395	1.7265	-0.013
1474	50	Biased	1.8893	1.817	-0.0723
1504	50	Biased	1.8145	1.7467	-0.0678
1540	100	Biased	1.8527	1.7198	-0.1329
1554	3	Unbiased	1.7855	1.781	-0.0045
1662	30	Biased	1.7919	1.7523	-0.0396
1679	10	Biased	1.8304	1.8148	-0.0156
1697	10	Biased	1.8045	1.7918	-0.0127
1703	30	Biased	1.7327	1.6893	-0.0434
1704	10	Unbiased	1.742	1.7284	-0.0136
1736	30	Biased	1.8387	1.7956	-0.0431
1737	0	Correlation	1.7833	1.7866	0.0033
1748	0	Correlation	1.7941	1.7973	0.0032

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.7366	1.7817	1.8369	0.038107	1.7388	1.7848	1.8398	0.038252	0.0022	0.00302	0.0035	0.00050695
3	1.7264	1.7671	1.8138	0.03196	1.7222	1.7631	1.8107	0.032024	-0.005	-0.004	-0.0031	0.00056765
10	1.7395	1.779	1.8304	0.034954	1.7251	1.7648	1.8148	0.03493	-0.0162	-0.0142	-0.0127	0.0013233
30	1.7327	1.8068	1.8643	0.04211	1.6893	1.7634	1.8216	0.041829	-0.0467	-0.043444	-0.0396	0.0019894
50	1.7585	1.8059	1.8893	0.0357	1.6817	1.7334	1.817	0.036371	-0.0768	-0.07251	-0.0678	0.0029539
100	1.7364	1.7889	1.8527	0.035462	1.5996	1.6509	1.7198	0.037018	-0.1479	-0.13803	-0.1271	0.0065473

Device Test: 24.15 LEVEL|LOW_LEVEL/OUTL/8/8/0/0/5/500kHz//@OUT_VOL





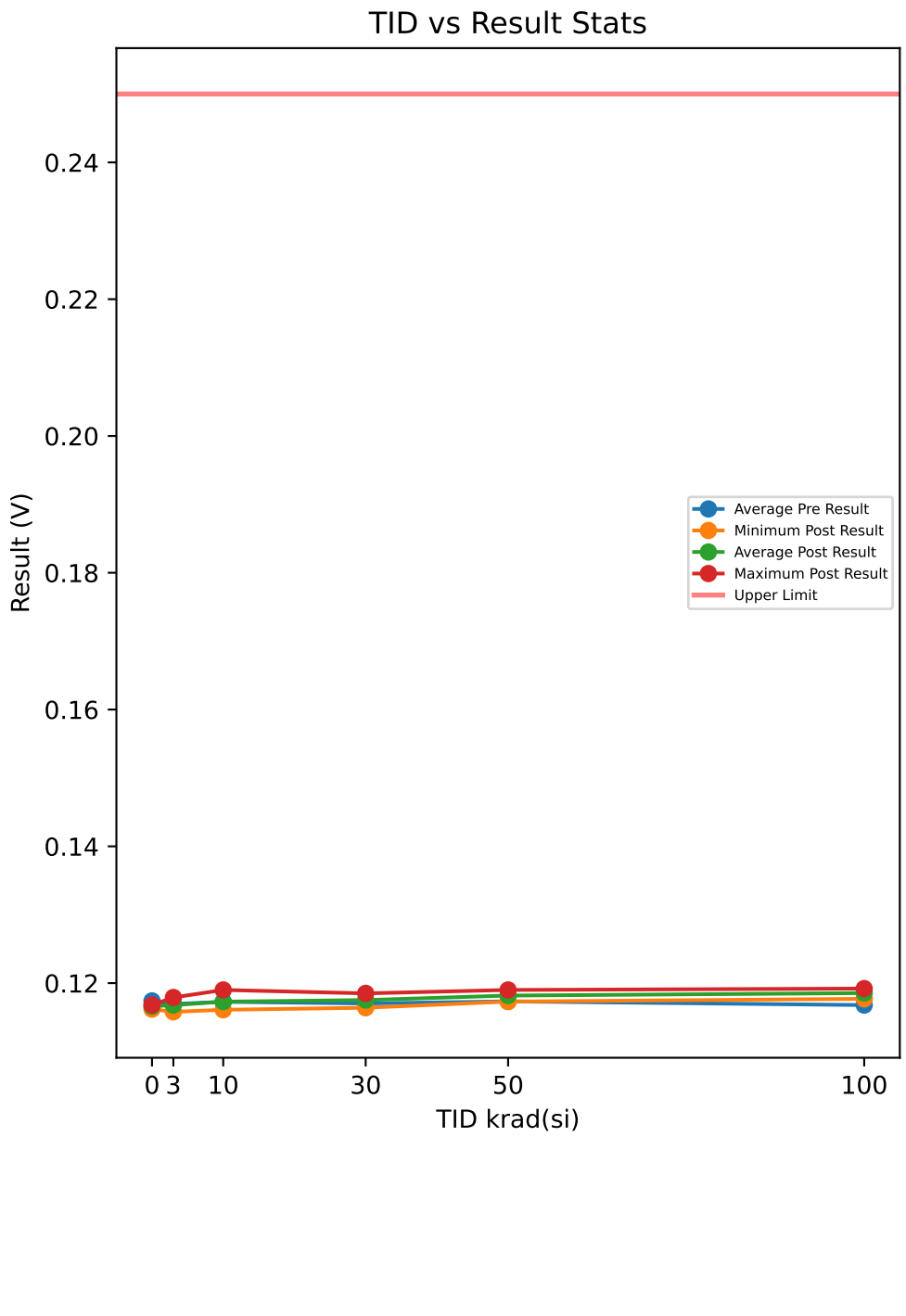
Test Results (Upper Limit = 0.15 (V))

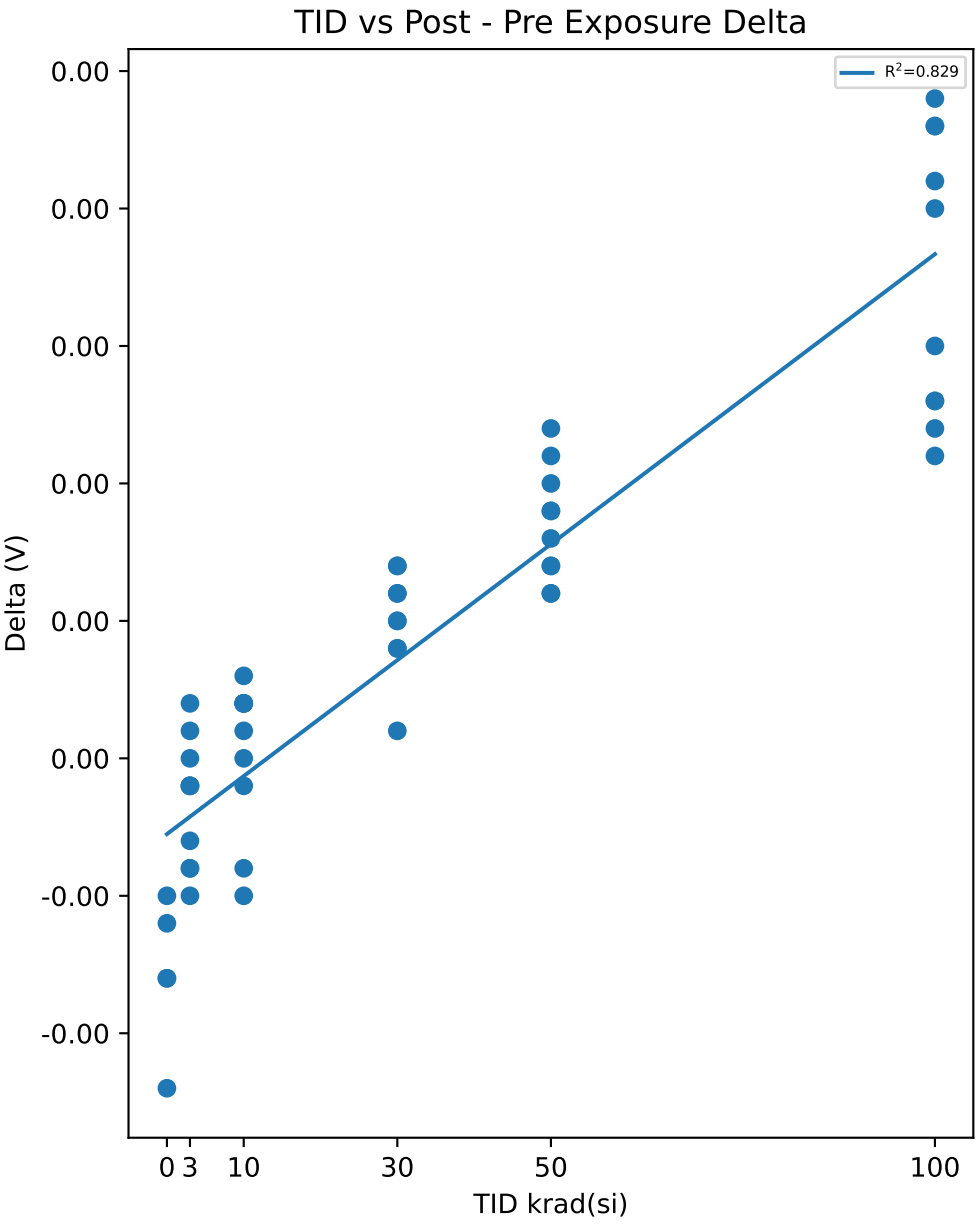
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	0.08	0.0773	-0.0027
411	100	Unbiased	0.0799	0.078	-0.0019
444	30	Unbiased	0.0796	0.0786	-0.001
454	10	Unbiased	0.0798	0.0792	-0.0006
491	3	Unbiased	0.0795	0.079	-0.0005
500	100	Unbiased	0.0802	0.0784	-0.0018
534	100	Biased	0.0794	0.0762	-0.0032
558	0	Correlation	0.08	0.0795	-0.0005
563	100	Biased	0.08	0.0766	-0.0034
570	3	Unbiased	0.0799	0.0794	-0.0005
614	10	Unbiased	0.0802	0.0793	-0.0009
675	3	Biased	0.0797	0.0773	-0.0024
713	100	Unbiased	0.0789	0.077	-0.0019
744	50	Biased	0.0811	0.0781	-0.003
799	50	Biased	0.0803	0.0776	-0.0027
842	30	Unbiased	0.08	0.079	-0.001
889	3	Unbiased	0.0793	0.0774	-0.0019
901	3	Biased	0.0795	0.079	-0.0005
930	50	Unbiased	0.0798	0.0783	-0.0015
968	100	Unbiased	0.0808	0.0786	-0.0022
976	100	Unbiased	0.0796	0.0777	-0.0019
981	3	Biased	0.0796	0.0791	-0.0005
1003	10	Biased	0.0799	0.0781	-0.0018
1039	3	Biased	0.0802	0.0772	-0.003
1053	100	Biased	0.08	0.0753	-0.0047
1056	0	Correlation	0.0796	0.0791	-0.0005
1072	10	Biased	0.0797	0.0779	-0.0018
1095	50	Unbiased	0.0801	0.0785	-0.0016
1099	0	Correlation	0.0792	0.0784	-0.0008
1113	3	Biased	0.0799	0.0775	-0.0024
1142	10	Unbiased	0.0796	0.079	-0.0006
1154	10	Biased	0.08	0.077	-0.003
1215	50	Unbiased	0.0798	0.0764	-0.0034
1222	100	Biased	0.0797	0.0762	-0.0035
1229	50	Unbiased	0.0798	0.0782	-0.0016
1255	3	Unbiased	0.0794	0.079	-0.0004
1331	30	Unbiased	0.0794	0.0781	-0.0013
1359	30	Biased	0.08	0.0763	-0.0037
1375	30	Unbiased	0.0801	0.0788	-0.0013
1398	30	Biased	0.0795	0.0774	-0.0021
1411	50	Biased	0.0793	0.0747	-0.0046
1465	10	Unbiased	0.0807	0.0793	-0.0014
1474	50	Biased	0.0808	0.0768	-0.004
1504	50	Biased	0.0813	0.0784	-0.0029
1540	100	Biased	0.0802	0.0775	-0.0027
1554	3	Unbiased	0.0798	0.0793	-0.0005
1662	30	Biased	0.0803	0.0767	-0.0036
1679	10	Biased	0.08	0.0785	-0.0015
1697	10	Biased	0.0799	0.0785	-0.0014
1703	30	Biased	0.0799	0.0774	-0.0025
1704	10	Unbiased	0.0802	0.078	-0.0022
1736	30	Biased	0.0806	0.078	-0.0026
1737	0	Correlation	0.08	0.0795	-0.0005
1748	0	Correlation	0.0811	0.0788	-0.0023

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.0792	0.07998	0.0811	0.00070852	0.0784	0.07906	0.0795	0.00047223	-0.0023	-0.00092	-0.0005	0.0007823
3	0.0793	0.07968	0.0802	0.00027406	0.0772	0.07842	0.0794	0.0009331	-0.003	-0.00126	-0.0004	0.0010362
10	0.0796	0.08	0.0807	0.00031269	0.077	0.07848	0.0793	0.00074803	-0.003	-0.00152	-0.0006	0.00073907
30	0.0794	0.079933	0.0806	0.0003873	0.0763	0.077811	0.079	0.00093467	-0.0037	-0.0021222	-0.001	0.0010557
50	0.0793	0.08023	0.0813	0.000643	0.0747	0.07743	0.0785	0.0011945	-0.0046	-0.0028	-0.0015	0.0010371
100	0.0789	0.07987	0.0808	0.00051435	0.0753	0.07715	0.0786	0.0010732	-0.0047	-0.00272	-0.0018	0.00096356

Device Test: 24.16 LEVEL|HIGH_LEVEL/OUTH/8/8/0/0/5/500kHz//@OUT_VOH





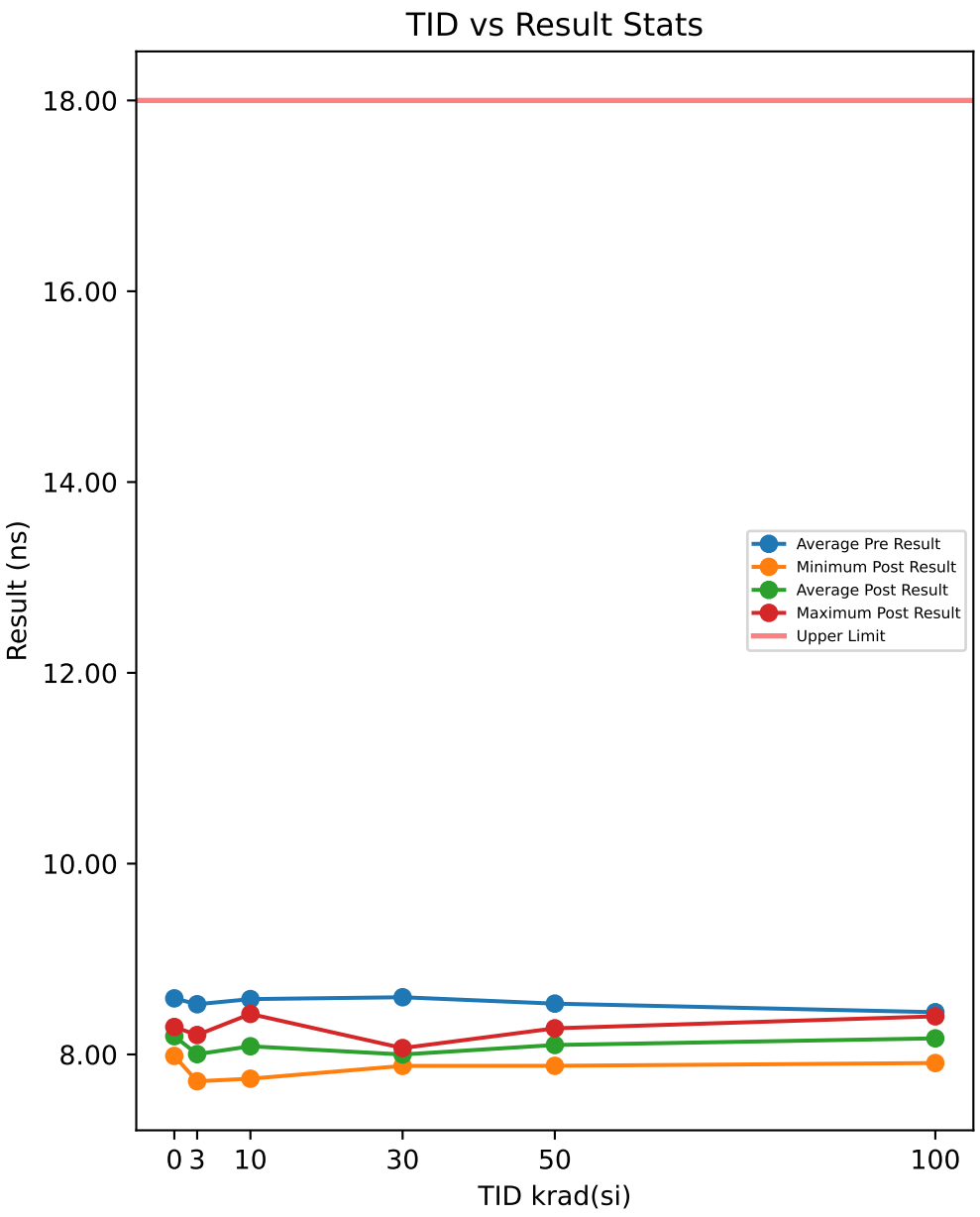
Test Results (Upper Limit = 0.25 (V))

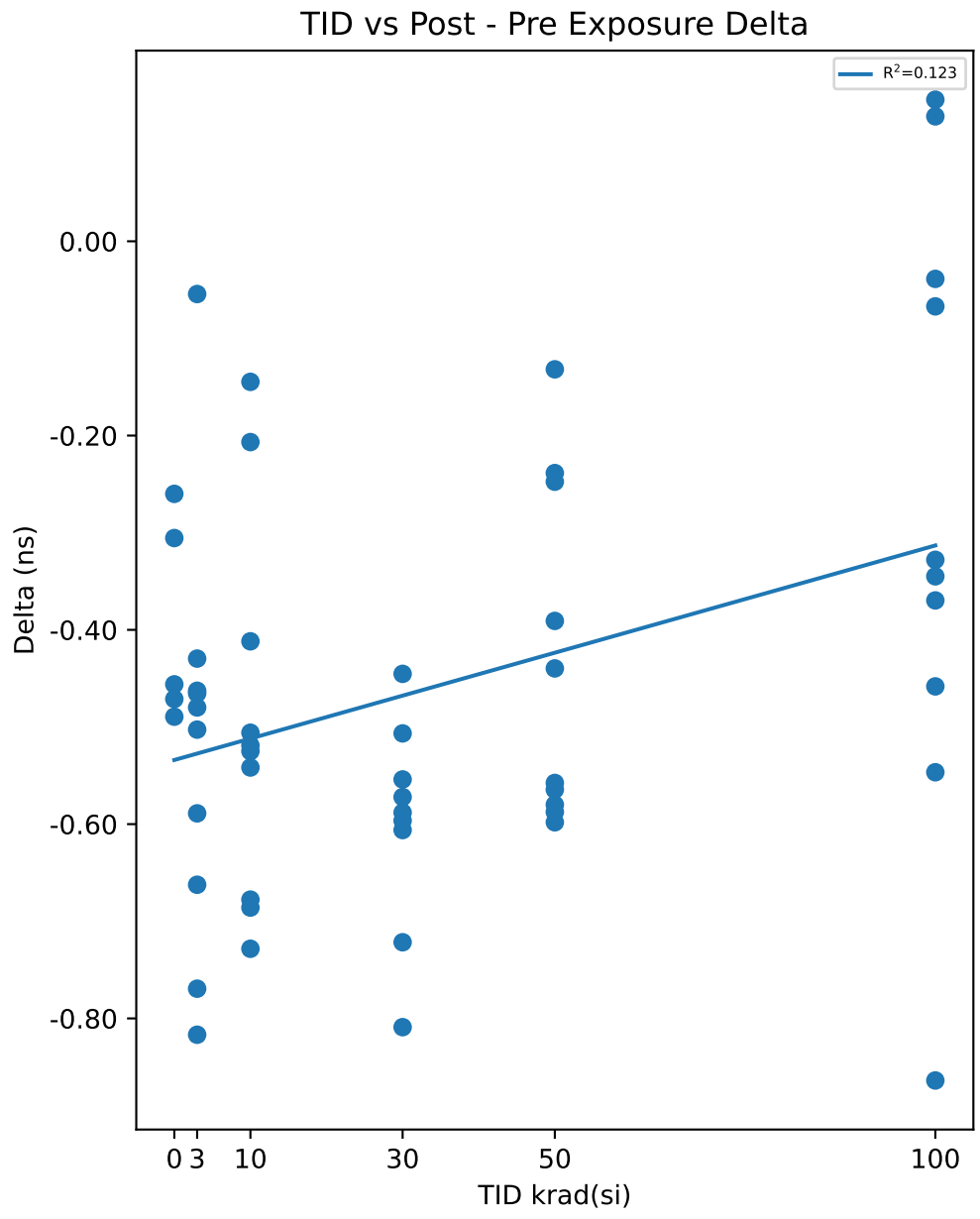
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	0.1178	0.1186	0.0008
411	100	Unbiased	0.1166	0.1177	0.0011
444	30	Unbiased	0.116	0.1164	0.0004
454	10	Unbiased	0.1172	0.1174	0.0002
491	3	Unbiased	0.1169	0.1165	-0.0004
500	100	Unbiased	0.1165	0.1178	0.0013
534	100	Biased	0.1169	0.1192	0.0023
558	0	Correlation	0.117	0.1162	-0.0008
563	100	Biased	0.1161	0.1185	0.0024
570	3	Unbiased	0.1168	0.1167	-0.0001
614	10	Unbiased	0.1162	0.1162	0
675	3	Biased	0.1172	0.1172	0
713	100	Unbiased	0.1176	0.1188	0.0012
744	50	Biased	0.1174	0.1185	0.0011
799	50	Biased	0.118	0.119	0.001
842	30	Unbiased	0.1181	0.1185	0.0004
889	3	Unbiased	0.1175	0.117	-0.0005
901	3	Biased	0.1157	0.1158	0.0001
930	50	Unbiased	0.1168	0.1177	0.0009
968	100	Unbiased	0.1167	0.118	0.0013
976	100	Unbiased	0.1175	0.119	0.0015
981	3	Biased	0.1165	0.1164	-0.0001
1003	10	Biased	0.1175	0.1176	0.0001
1039	3	Biased	0.1174	0.117	-0.0004
1053	100	Biased	0.117	0.1191	0.0021
1056	0	Correlation	0.1174	0.1168	-0.0006
1072	10	Biased	0.1194	0.119	-0.0004
1095	50	Unbiased	0.1173	0.118	0.0007
1099	0	Correlation	0.118	0.1168	-0.0012
1113	3	Biased	0.118	0.1179	-0.0001
1142	10	Unbiased	0.1159	0.1161	0.0002
1154	10	Biased	0.1174	0.1176	0.0002
1215	50	Unbiased	0.1167	0.1173	0.0006
1222	100	Biased	0.1168	0.1191	0.0023
1229	50	Unbiased	0.1172	0.1178	0.0006
1255	3	Unbiased	0.1168	0.1165	-0.0003
1331	30	Unbiased	0.1171	0.1176	0.0005
1359	30	Biased	0.1165	0.1171	0.0006
1375	30	Unbiased	0.1173	0.1174	0.0001
1398	30	Biased	0.1162	0.1168	0.0006
1411	50	Biased	0.1175	0.1182	0.0007
1465	10	Unbiased	0.1175	0.117	-0.0005
1474	50	Biased	0.1175	0.1187	0.0012
1504	50	Biased	0.1171	0.118	0.0009
1540	100	Biased	0.1162	0.1182	0.002
1554	3	Unbiased	0.1166	0.1168	0.0002
1662	30	Biased	0.1175	0.118	0.0005
1679	10	Biased	0.1173	0.1176	0.0003
1697	10	Biased	0.1174	0.1173	-0.0001
1703	30	Biased	0.117	0.1177	0.0007
1704	10	Unbiased	0.1169	0.1171	0.0002
1736	30	Biased	0.1175	0.1182	0.0007
1737	0	Correlation	0.1176	0.1168	-0.0008
1748	0	Correlation	0.117	0.1165	-0.0005

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.117	0.1174	0.118	0.00042426	0.1162	0.11662	0.1168	0.00026833	-0.0012	-0.00078	-0.0005	0.00026833
3	0.1157	0.11694	0.118	0.00063281	0.1158	0.11678	0.1179	0.00055737	-0.0005	-0.00016	0.0002	0.0002319
10	0.1159	0.11727	0.1194	0.00093339	0.1161	0.11729	0.119	0.00081302	-0.0005	2e-05	0.0003	0.00027406
30	0.116	0.11702	0.1181	0.00067966	0.1164	0.11752	0.1185	0.00067598	0.0001	0.0005	0.0007	0.00018708
50	0.1167	0.11733	0.118	0.00040565	0.1173	0.11818	0.119	0.00052026	0.0006	0.00085	0.0012	0.00020683
100	0.1161	0.11679	0.1176	0.00049092	0.1177	0.11854	0.1192	0.00057774	0.0011	0.00175	0.0024	0.00051694

Device Test: 24.17 TIMING|OUT_RISE/OUTH/8/8/0/1000/4.5/500kHz//@OUT_RISE_8V





Test Results (Upper Limit = 18.0 (ns))

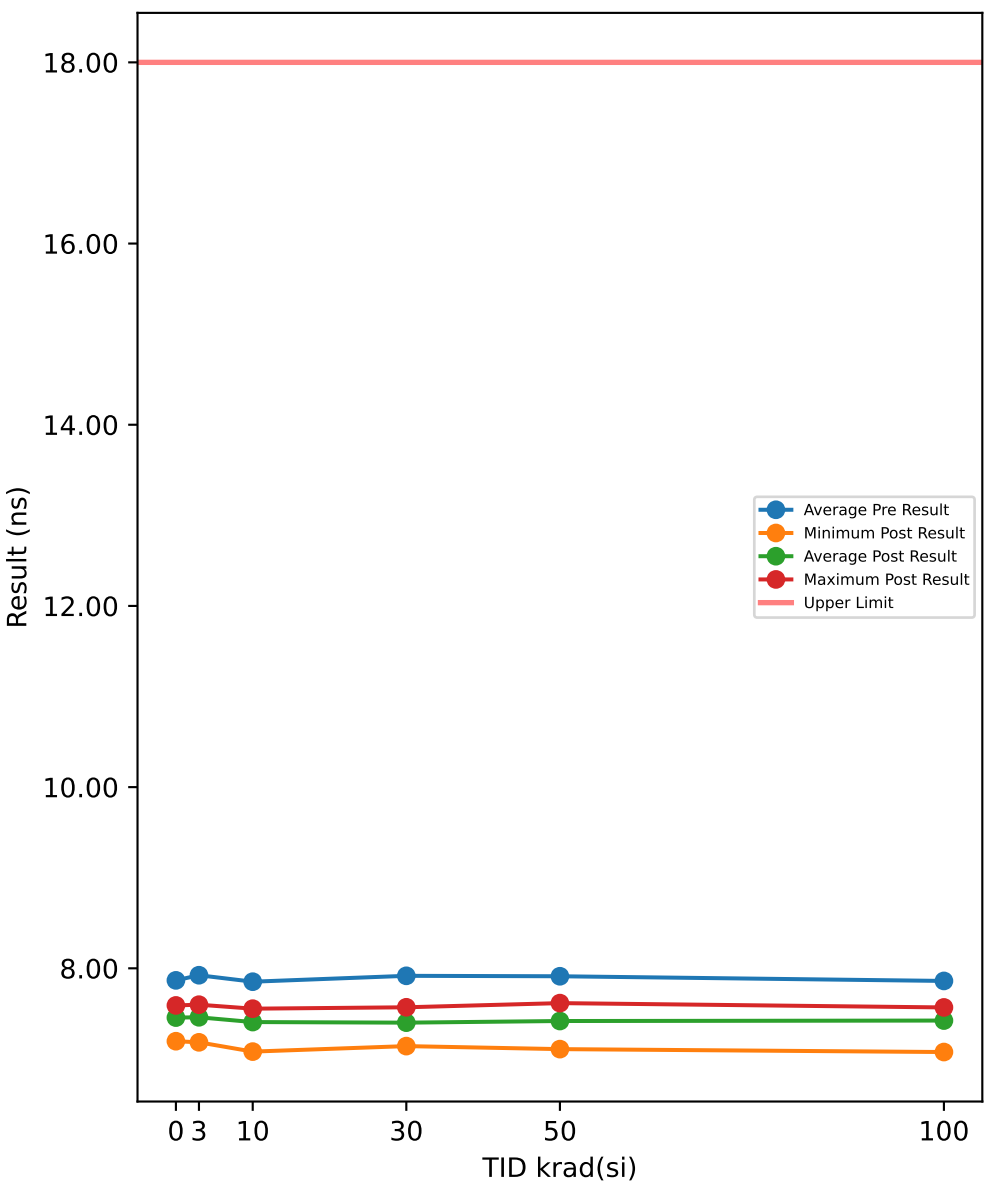
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	8.61	8.03	-0.58
411	100	Unbiased	8.7737	7.9098	-0.8639
444	30	Unbiased	8.6444	8.048	-0.5964
454	10	Unbiased	8.751	8.232	-0.519
491	3	Unbiased	8.2581	8.2038	-0.0543
500	100	Unbiased	8.2536	8.3994	0.1458
534	100	Biased	8.6282	8.2585	-0.3697
558	0	Correlation	8.7262	8.255	-0.4712
563	100	Biased	8.5935	8.0469	-0.5466
570	3	Unbiased	8.4883	7.7189	-0.7694
614	10	Unbiased	8.4233	7.7456	-0.6777
675	3	Biased	8.4488	7.9689	-0.4799
713	100	Unbiased	8.4154	8.0705	-0.3449
744	50	Biased	8.341	8.2092	-0.1318
799	50	Biased	8.5916	8.1519	-0.4397
842	30	Unbiased	8.5735	8.0669	-0.5066
889	3	Unbiased	8.5088	8.0434	-0.4654
901	3	Biased	8.6412	8.1385	-0.5027
930	50	Unbiased	8.4788	7.8807	-0.5981
968	100	Unbiased	8.3025	8.2638	-0.0387
976	100	Unbiased	8.5633	8.2354	-0.3279
981	3	Biased	8.5131	8.0504	-0.4627
1003	10	Biased	8.5691	8.4244	-0.1447
1039	3	Biased	8.6542	8.0653	-0.5889
1053	100	Biased	8.2067	8.1397	-0.067
1056	0	Correlation	8.7439	8.2878	-0.4561
1072	10	Biased	8.7906	8.1047	-0.6859
1095	50	Unbiased	8.5125	8.2739	-0.2386
1099	0	Correlation	8.4697	8.1642	-0.3055
1113	3	Biased	8.5579	8.1283	-0.4296
1142	10	Unbiased	8.5901	8.0652	-0.5249
1154	10	Biased	8.7651	8.0368	-0.7283
1215	50	Unbiased	8.6884	8.1308	-0.5576
1222	100	Biased	8.4986	8.0404	-0.4582
1229	50	Unbiased	8.5251	7.9376	-0.5875
1255	3	Unbiased	8.706	7.8892	-0.8168
1331	30	Unbiased	8.631	8.0589	-0.5721
1359	30	Biased	8.6857	7.9641	-0.7216
1375	30	Unbiased	8.7483	7.9393	-0.809
1398	30	Biased	8.6134	8.0253	-0.5881
1411	50	Biased	8.3264	8.0789	-0.2475
1465	10	Unbiased	8.4772	7.9355	-0.5417
1474	50	Biased	8.5541	8.1633	-0.3908
1504	50	Biased	8.6977	8.1332	-0.5645
1540	100	Biased	8.1926	8.3212	0.1286
1554	3	Unbiased	8.4855	7.8231	-0.6624
1662	30	Biased	8.5608	8.0068	-0.554
1679	10	Biased	8.6427	8.2309	-0.4118
1697	10	Biased	8.5072	8.0013	-0.5059
1703	30	Biased	8.4859	7.8798	-0.6061
1704	10	Unbiased	8.2863	8.0796	-0.2067
1736	30	Biased	8.4531	8.0078	-0.4453
1737	0	Correlation	8.5256	8.2656	-0.26
1748	0	Correlation	8.4735	7.9841	-0.4894

Test Statistics (ns)

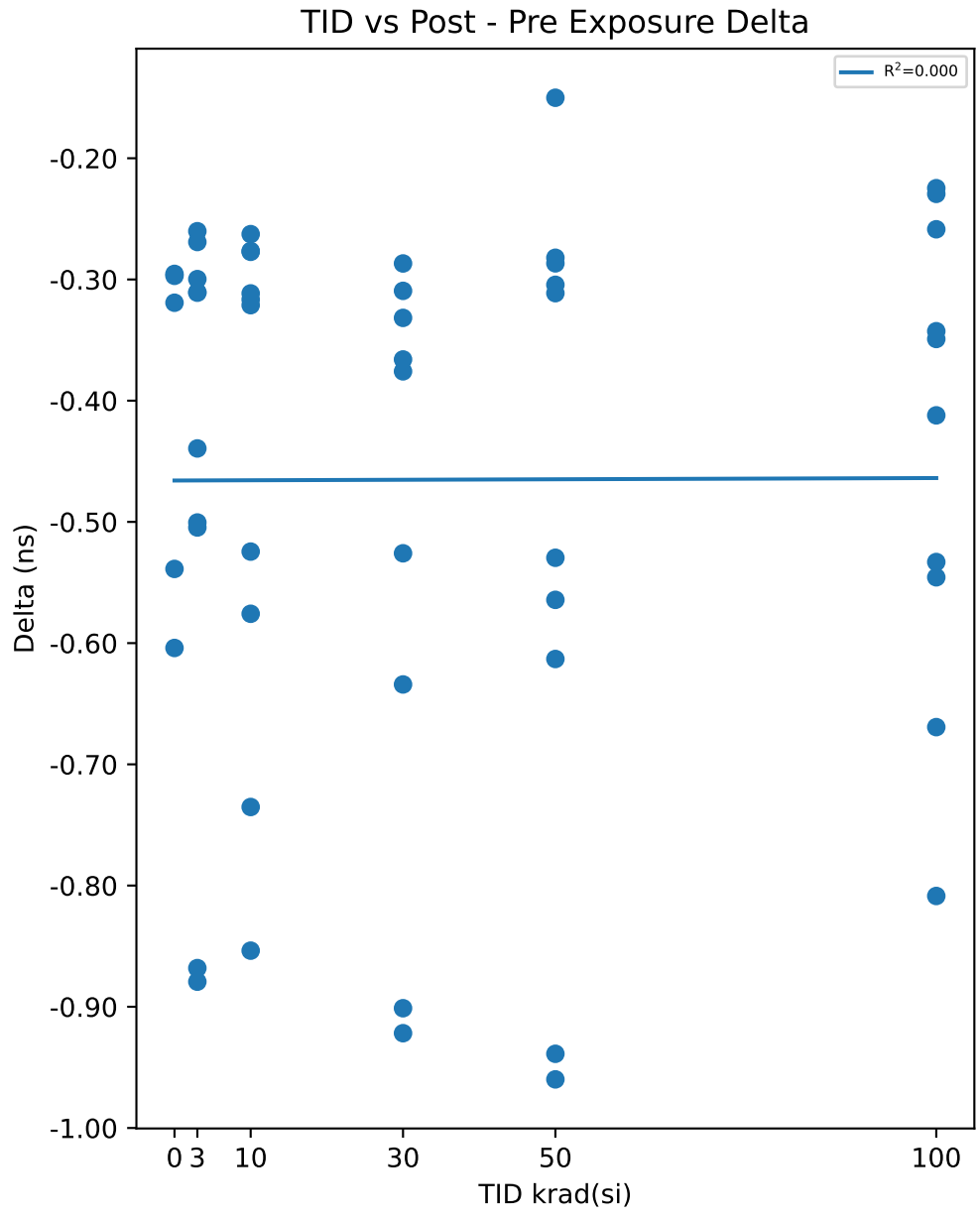
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	8.4697	8.5878	8.7439	0.13638	7.9841	8.1913	8.2878	0.12506	-0.4894	-0.39644	-0.26	0.10568
3	8.2581	8.5262	8.706	0.12666	7.7189	8.003	8.2038	0.15251	-0.8168	-0.52321	-0.0543	0.21303
10	8.2863	8.5803	8.7906	0.16285	7.7456	8.0856	8.4244	0.18432	-0.7283	-0.49466	-0.1447	0.19458
30	8.4531	8.5996	8.7483	0.093062	7.8798	7.9997	8.0669	0.061661	-0.809	-0.59991	-0.4453	0.10852
50	8.3264	8.5326	8.6977	0.12651	7.8807	8.0989	8.2739	0.12052	-0.5981	-0.43361	-0.1318	0.1733
100	8.1926	8.4428	8.7737	0.19966	7.9098	8.1686	8.3994	0.1516	-0.8639	-0.27425	0.1458	0.31795

Device Test: 24.18 TIMING|OUT_FALL/OUTH/8/8/0/1000/4.5/500kHz//@OUT_FALL_8V

TID vs Result Stats



TID vs Post - Pre Exposure Delta



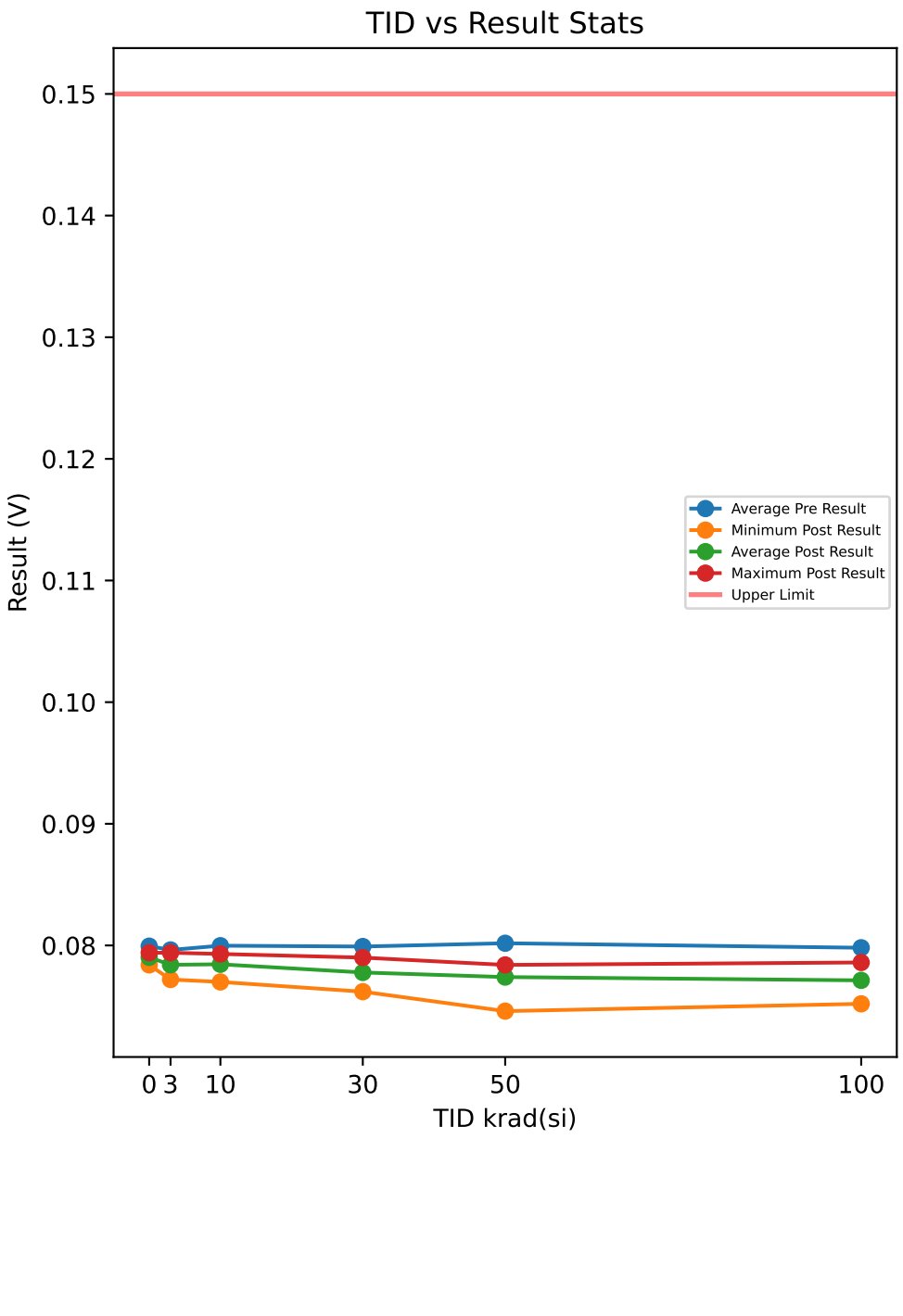
Test Results (Upper Limit = 18.0 (ns))

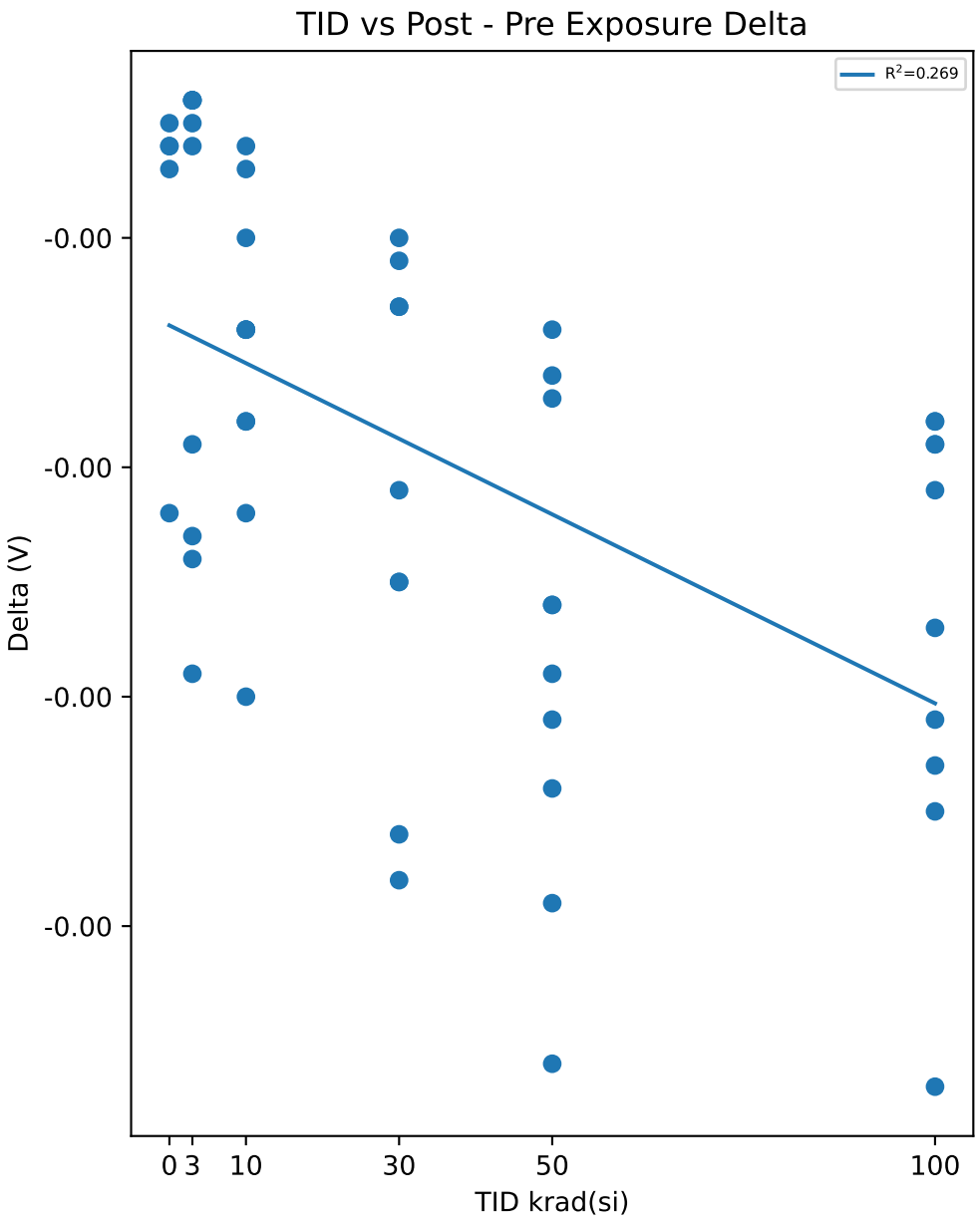
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	7.8098	7.5231	-0.2867
411	100	Unbiased	7.7514	7.522	-0.2294
444	30	Unbiased	7.8129	7.5261	-0.2868
454	10	Unbiased	7.8103	7.5338	-0.2765
491	3	Unbiased	7.7554	7.4445	-0.3109
500	100	Unbiased	7.7986	7.4495	-0.3491
534	100	Biased	7.7906	7.4479	-0.3427
558	0	Correlation	7.8078	7.5124	-0.2954
563	100	Biased	7.8312	7.1619	-0.6693
570	3	Unbiased	8.0512	7.1831	-0.8681
614	10	Unbiased	8.0767	7.223	-0.8537
675	3	Biased	7.815	7.5459	-0.2691
713	100	Unbiased	8.0351	7.4894	-0.5457
744	50	Biased	7.8215	7.5171	-0.3044
799	50	Biased	8.1092	7.1704	-0.9388
842	30	Unbiased	7.9456	7.5698	-0.3758
889	3	Unbiased	8.0236	7.519	-0.5046
901	3	Biased	7.8138	7.5141	-0.2997
930	50	Unbiased	7.768	7.1549	-0.6131
968	100	Unbiased	7.8691	7.457	-0.4121
976	100	Unbiased	8.0453	7.5122	-0.5331
981	3	Biased	8.0379	7.5985	-0.4394
1003	10	Biased	7.7259	7.4487	-0.2772
1039	3	Biased	7.8458	7.5353	-0.3105
1053	100	Biased	7.7929	7.5682	-0.2247
1056	0	Correlation	7.7839	7.4647	-0.3192
1072	10	Biased	7.8158	7.0806	-0.7352
1095	50	Unbiased	8.0528	7.5232	-0.5296
1099	0	Correlation	7.7993	7.1953	-0.604
1113	3	Biased	8.0493	7.5488	-0.5005
1142	10	Unbiased	7.8203	7.5038	-0.3165
1154	10	Biased	7.8171	7.5545	-0.2626
1215	50	Unbiased	7.8447	7.5334	-0.3113
1222	100	Biased	7.8845	7.0759	-0.8086
1229	50	Unbiased	8.0679	7.108	-0.9599
1255	3	Unbiased	7.7777	7.5175	-0.2602
1331	30	Unbiased	7.8124	7.1783	-0.6341
1359	30	Biased	7.8547	7.523	-0.3317
1375	30	Unbiased	7.8198	7.5104	-0.3094
1398	30	Biased	7.8286	7.4626	-0.366
1411	50	Biased	7.6345	7.4844	-0.1501
1465	10	Unbiased	7.7769	7.2011	-0.5758
1474	50	Biased	8.1165	7.5522	-0.5643
1504	50	Biased	7.8979	7.6158	-0.2821
1540	100	Biased	7.808	7.5494	-0.2586
1554	3	Unbiased	8.0669	7.1876	-0.8793
1662	30	Biased	8.06	7.5341	-0.5259
1679	10	Biased	7.8142	7.493	-0.3212
1697	10	Biased	8.0345	7.51	-0.5245
1703	30	Biased	8.0425	7.1413	-0.9012
1704	10	Unbiased	7.8308	7.5193	-0.3115
1736	30	Biased	8.0777	7.1559	-0.9218
1737	0	Correlation	8.0567	7.5179	-0.5388
1748	0	Correlation	7.8873	7.5903	-0.297

Test Statistics (ns)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	7.7839	7.867	8.0567	0.11335	7.1953	7.4561	7.5903	0.15255	-0.604	-0.41088	-0.2954	0.14863
3	7.7554	7.9237	8.0669	0.1313	7.1831	7.4594	7.5985	0.14942	-0.8793	-0.46423	-0.2602	0.23402
10	7.7259	7.8523	8.0767	0.1118	7.0806	7.4068	7.5545	0.17073	-0.8537	-0.44547	-0.2626	0.21452
30	7.8124	7.9171	8.0777	0.11498	7.1413	7.4002	7.5698	0.18358	-0.9218	-0.51697	-0.2868	0.24961
50	7.6345	7.9123	8.1165	0.16531	7.108	7.4183	7.6158	0.19248	-0.9599	-0.49403	-0.1501	0.28102
100	7.7514	7.8607	8.0453	0.10225	7.0759	7.4233	7.5682	0.16679	-0.8086	-0.43733	-0.2247	0.1973

Device Test: 24.5 LEVEL|LOW_LEVEL/OUTL/12/12/0/0/5/500kHz//@OUT_VOL





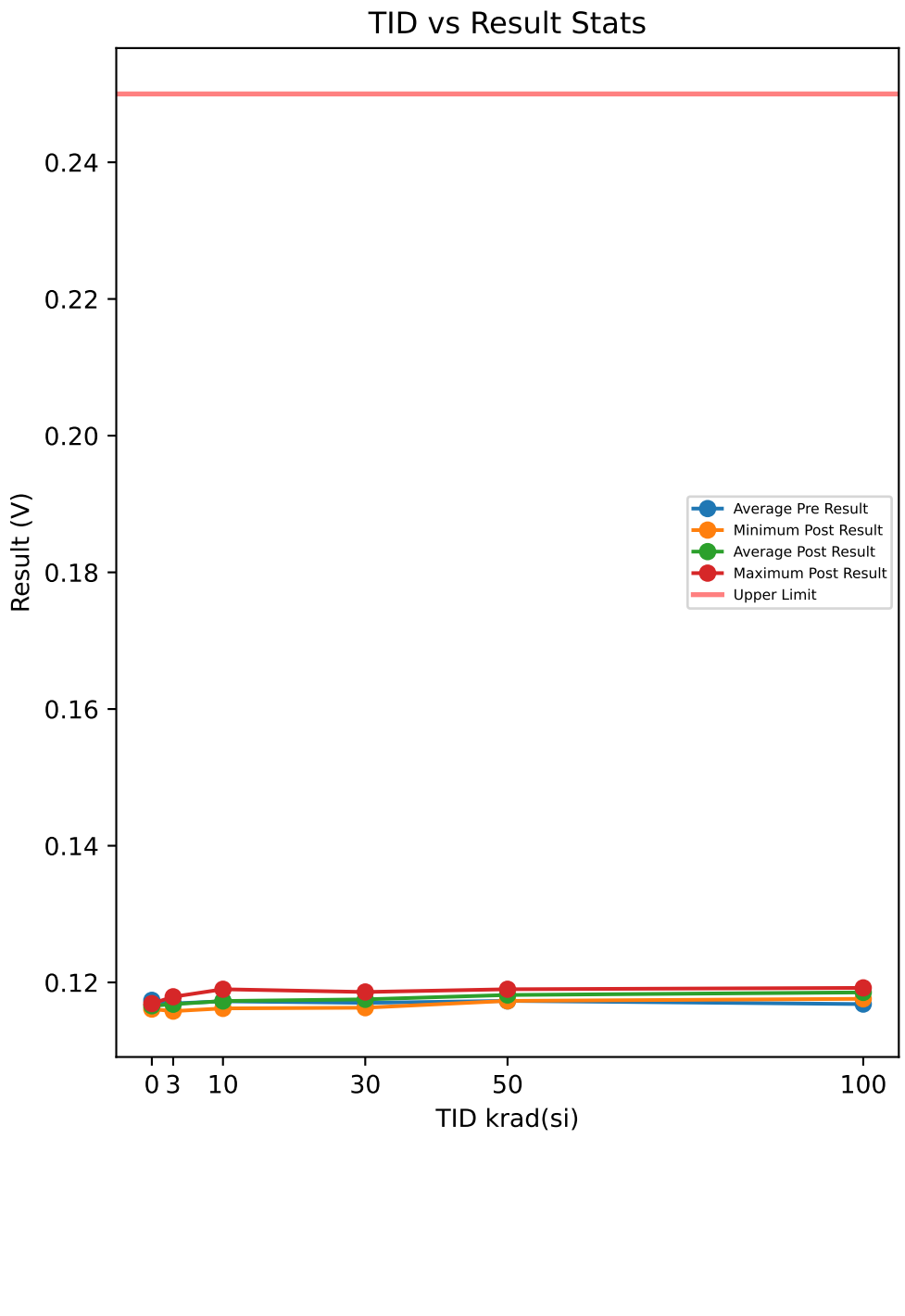
Test Results (Upper Limit = 0.15 (V))

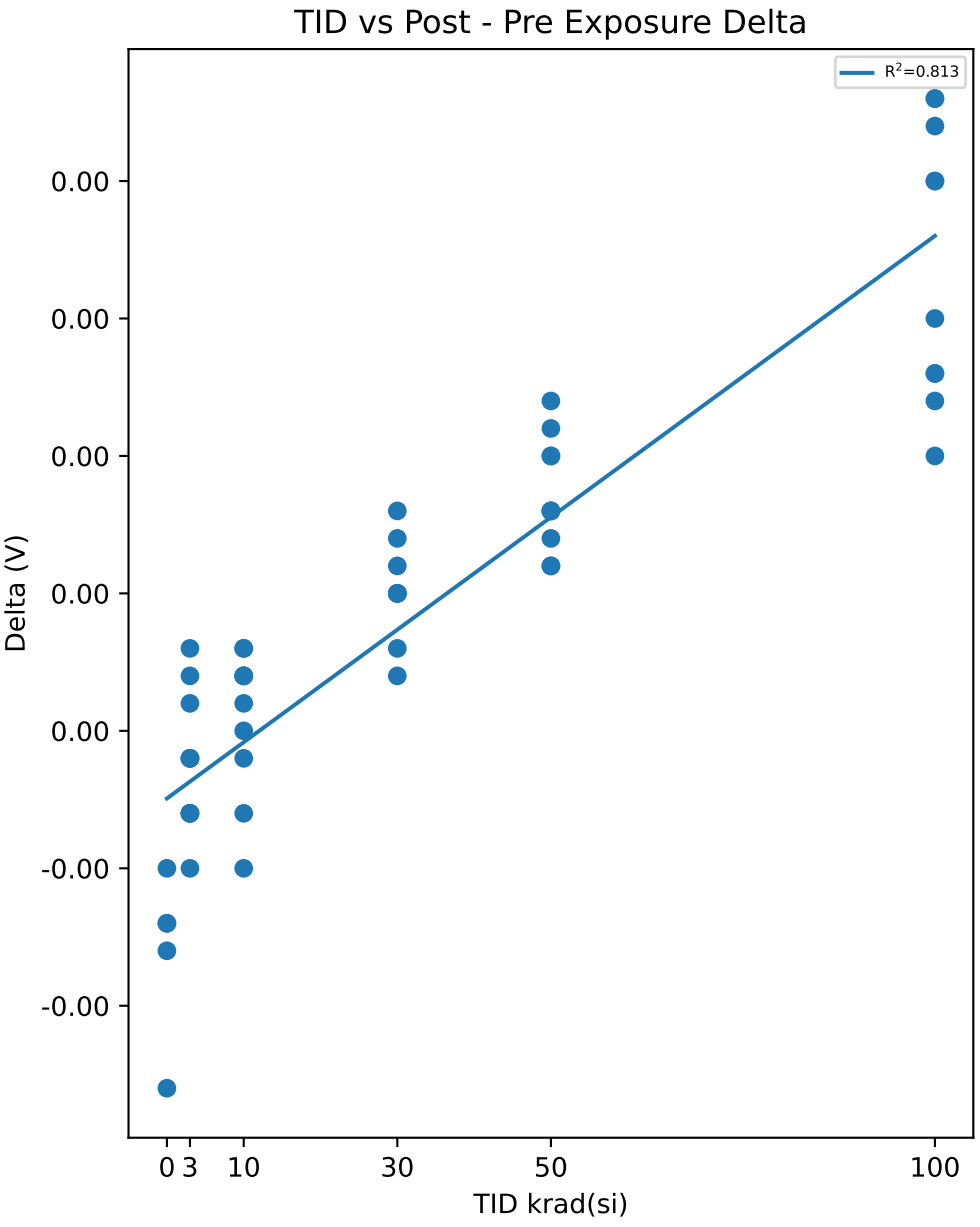
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	0.0799	0.0773	-0.0026
411	100	Unbiased	0.0798	0.078	-0.0018
444	30	Unbiased	0.0796	0.0785	-0.0011
454	10	Unbiased	0.0798	0.0791	-0.0007
491	3	Unbiased	0.0795	0.0789	-0.0006
500	100	Unbiased	0.0802	0.0783	-0.0019
534	100	Biased	0.0793	0.0762	-0.0031
558	0	Correlation	0.08	0.0794	-0.0006
563	100	Biased	0.0799	0.0766	-0.0033
570	3	Unbiased	0.0798	0.0794	-0.0004
614	10	Unbiased	0.0802	0.0792	-0.001
675	3	Biased	0.0796	0.0773	-0.0023
713	100	Unbiased	0.0789	0.077	-0.0019
744	50	Biased	0.0811	0.078	-0.0031
799	50	Biased	0.0802	0.0776	-0.0026
842	30	Unbiased	0.08	0.079	-0.001
889	3	Unbiased	0.0793	0.0774	-0.0019
901	3	Biased	0.0795	0.0791	-0.0004
930	50	Unbiased	0.0797	0.0783	-0.0014
968	100	Unbiased	0.0807	0.0786	-0.0021
976	100	Unbiased	0.0795	0.0777	-0.0018
981	3	Biased	0.0796	0.0791	-0.0005
1003	10	Biased	0.0799	0.0781	-0.0018
1039	3	Biased	0.0801	0.0772	-0.0029
1053	100	Biased	0.0799	0.0752	-0.0047
1056	0	Correlation	0.0796	0.0791	-0.0005
1072	10	Biased	0.0797	0.0779	-0.0018
1095	50	Unbiased	0.0801	0.0784	-0.0017
1099	0	Correlation	0.0791	0.0784	-0.0007
1113	3	Biased	0.0798	0.0774	-0.0024
1142	10	Unbiased	0.0795	0.0789	-0.0006
1154	10	Biased	0.08	0.077	-0.003
1215	50	Unbiased	0.0798	0.0764	-0.0034
1222	100	Biased	0.0797	0.0762	-0.0035
1229	50	Unbiased	0.0798	0.0782	-0.0016
1255	3	Unbiased	0.0794	0.079	-0.0004
1331	30	Unbiased	0.0794	0.0781	-0.0013
1359	30	Biased	0.08	0.0762	-0.0038
1375	30	Unbiased	0.08	0.0787	-0.0013
1398	30	Biased	0.0795	0.0774	-0.0021
1411	50	Biased	0.0792	0.0746	-0.0046
1465	10	Unbiased	0.0807	0.0793	-0.0014
1474	50	Biased	0.0807	0.0768	-0.0039
1504	50	Biased	0.0813	0.0784	-0.0029
1540	100	Biased	0.0802	0.0775	-0.0027
1554	3	Unbiased	0.0797	0.0793	-0.0004
1662	30	Biased	0.0803	0.0767	-0.0036
1679	10	Biased	0.0799	0.0785	-0.0014
1697	10	Biased	0.0799	0.0785	-0.0014
1703	30	Biased	0.0799	0.0774	-0.0025
1704	10	Unbiased	0.0802	0.078	-0.0022
1736	30	Biased	0.0805	0.078	-0.0025
1737	0	Correlation	0.08	0.0794	-0.0006
1748	0	Correlation	0.081	0.0788	-0.0022

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.0791	0.07994	0.081	0.00069857	0.0784	0.07902	0.0794	0.00042661	-0.0022	-0.00092	-0.0005	0.00071903
3	0.0793	0.07963	0.0801	0.00023118	0.0772	0.07841	0.0794	0.00094569	-0.0029	-0.00122	-0.0004	0.0010239
10	0.0795	0.07998	0.0807	0.00032931	0.077	0.07845	0.0793	0.00071841	-0.003	-0.00153	-0.0006	0.0007181
30	0.0794	0.079911	0.0805	0.00036209	0.0762	0.077778	0.079	0.00093244	-0.0038	-0.0021333	-0.001	0.0010571
50	0.0792	0.08018	0.0813	0.00066131	0.0746	0.0774	0.0784	0.0012046	-0.0046	-0.00278	-0.0014	0.0010326
100	0.0789	0.07981	0.0807	0.00050651	0.0752	0.07713	0.0786	0.0010802	-0.0047	-0.00268	-0.0018	0.00096701

Device Test: 24.6 LEVEL|HIGH_LEVEL/OUTH/12/12/0/0/5/500kHz//@OUT_VOH





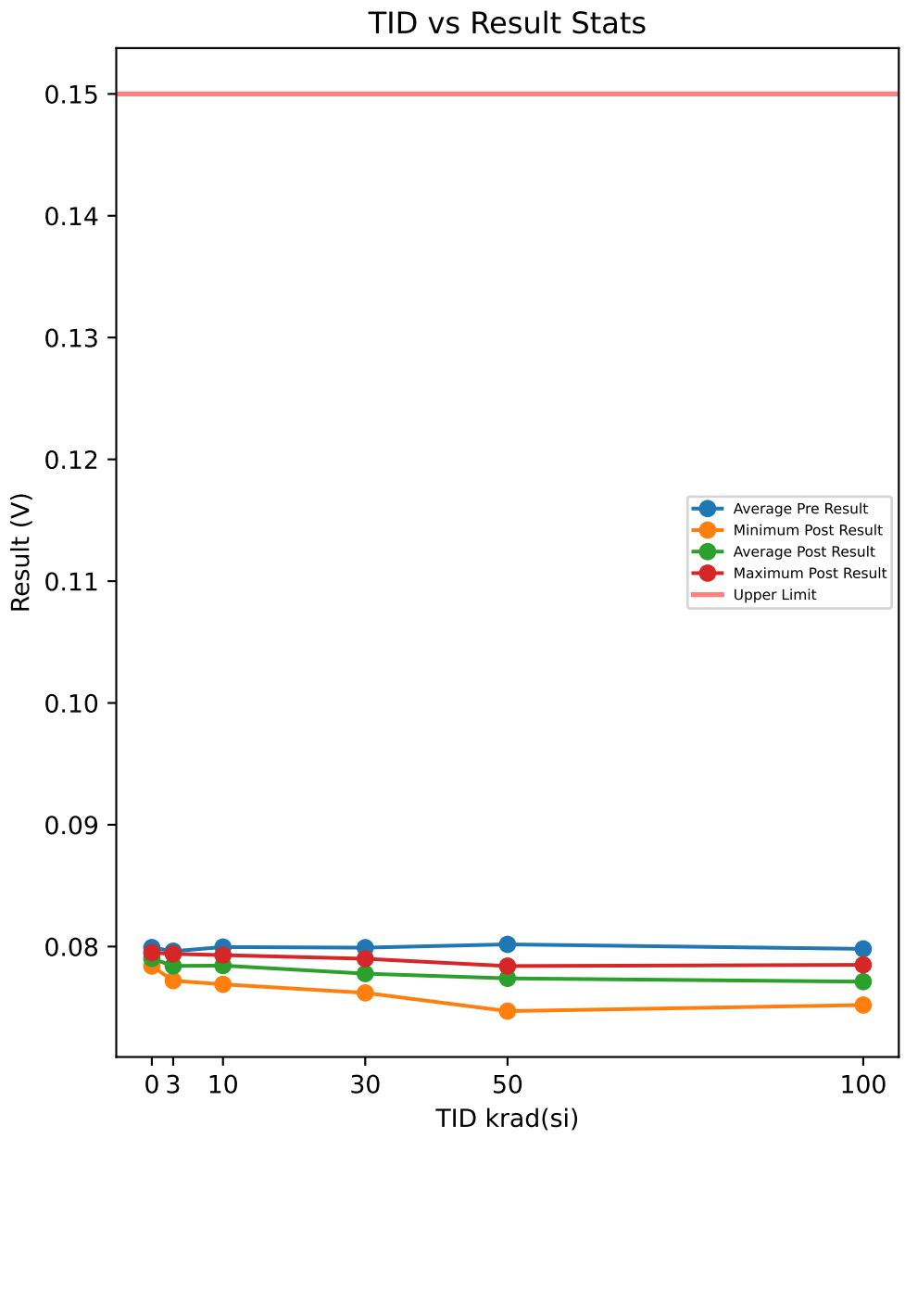
Test Results (Upper Limit = 0.25 (V))

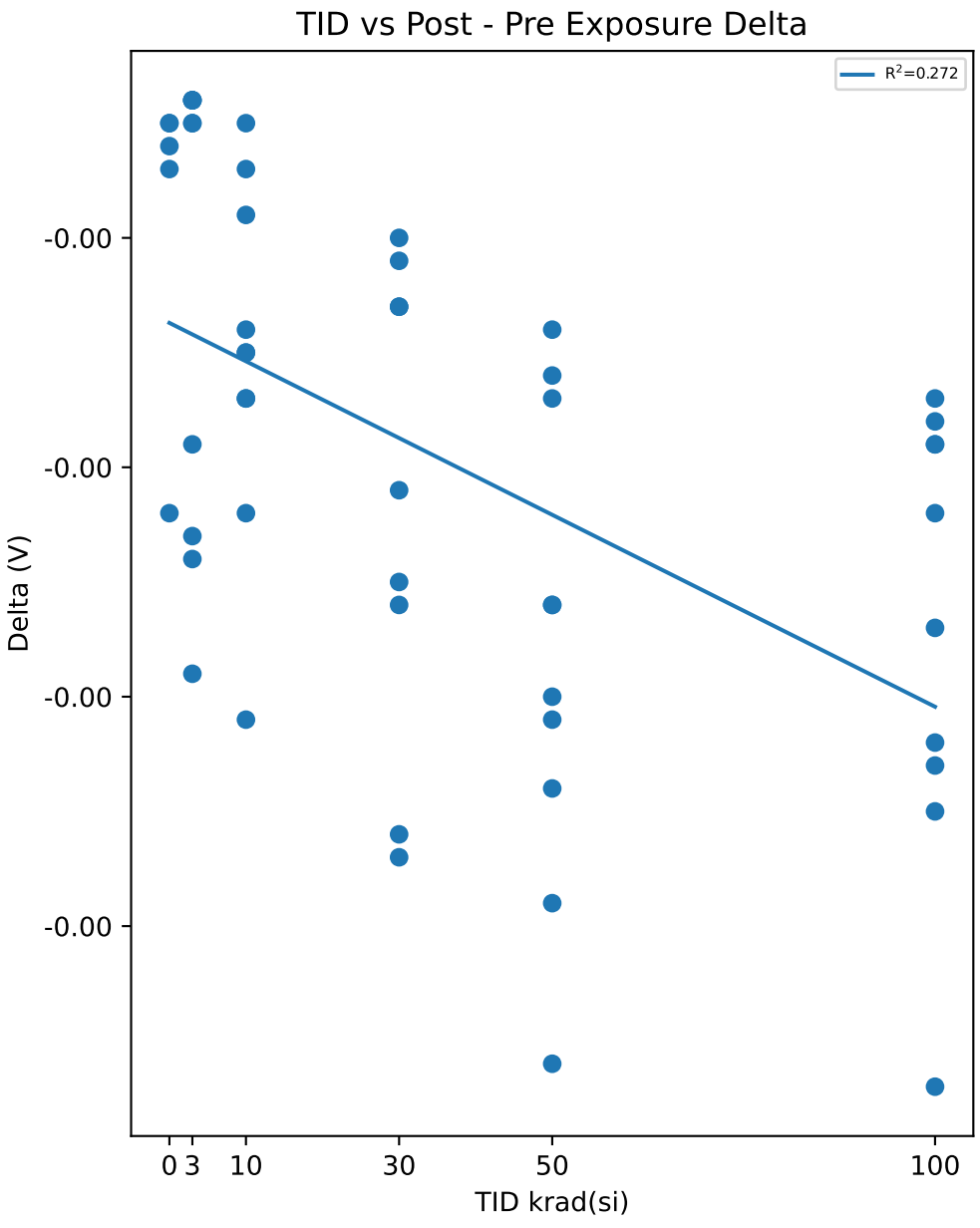
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	0.1177	0.1185	0.0008
411	100	Unbiased	0.1166	0.1176	0.001
444	30	Unbiased	0.116	0.1163	0.0003
454	10	Unbiased	0.1172	0.1174	0.0002
491	3	Unbiased	0.1169	0.1166	-0.0003
500	100	Unbiased	0.1166	0.1179	0.0013
534	100	Biased	0.1169	0.1192	0.0023
558	0	Correlation	0.1169	0.1161	-0.0008
563	100	Biased	0.1162	0.1185	0.0023
570	3	Unbiased	0.1167	0.1168	0.0001
614	10	Unbiased	0.1162	0.1162	0
675	3	Biased	0.1173	0.1172	-0.0001
713	100	Unbiased	0.1177	0.1189	0.0012
744	50	Biased	0.1174	0.1185	0.0011
799	50	Biased	0.118	0.119	0.001
842	30	Unbiased	0.1181	0.1186	0.0005
889	3	Unbiased	0.1175	0.117	-0.0005
901	3	Biased	0.1156	0.1158	0.0002
930	50	Unbiased	0.1167	0.1177	0.001
968	100	Unbiased	0.1167	0.118	0.0013
976	100	Unbiased	0.1174	0.1189	0.0015
981	3	Biased	0.1164	0.1163	-0.0001
1003	10	Biased	0.1175	0.1176	0.0001
1039	3	Biased	0.1174	0.1171	-0.0003
1053	100	Biased	0.1172	0.1192	0.002
1056	0	Correlation	0.1175	0.1168	-0.0007
1072	10	Biased	0.1193	0.119	-0.0003
1095	50	Unbiased	0.1173	0.1179	0.0006
1099	0	Correlation	0.1179	0.1166	-0.0013
1113	3	Biased	0.118	0.1179	-0.0001
1142	10	Unbiased	0.1159	0.1162	0.0003
1154	10	Biased	0.1173	0.1175	0.0002
1215	50	Unbiased	0.1167	0.1173	0.0006
1222	100	Biased	0.1169	0.1191	0.0022
1229	50	Unbiased	0.1172	0.1179	0.0007
1255	3	Unbiased	0.1168	0.1165	-0.0003
1331	30	Unbiased	0.117	0.1176	0.0006
1359	30	Biased	0.1166	0.1171	0.0005
1375	30	Unbiased	0.1173	0.1175	0.0002
1398	30	Biased	0.1163	0.1168	0.0005
1411	50	Biased	0.1174	0.1182	0.0008
1465	10	Unbiased	0.1175	0.117	-0.0005
1474	50	Biased	0.1175	0.1187	0.0012
1504	50	Biased	0.1171	0.1179	0.0008
1540	100	Biased	0.1161	0.1181	0.002
1554	3	Unbiased	0.1166	0.1169	0.0003
1662	30	Biased	0.1175	0.118	0.0005
1679	10	Biased	0.1173	0.1176	0.0003
1697	10	Biased	0.1174	0.1173	-0.0001
1703	30	Biased	0.1168	0.1176	0.0008
1704	10	Unbiased	0.1168	0.117	0.0002
1736	30	Biased	0.1175	0.1182	0.0007
1737	0	Correlation	0.1176	0.1169	-0.0007
1748	0	Correlation	0.117	0.1165	-0.0005

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.1169	0.11738	0.1179	0.00042071	0.1161	0.11658	0.1169	0.00031145	-0.0013	-0.0008	-0.0005	0.0003
3	0.1156	0.11692	0.118	0.00067132	0.1158	0.11681	0.1179	0.00056657	-0.0005	-0.00011	0.0003	0.00025144
10	0.1159	0.11724	0.1193	0.0009119	0.1162	0.11728	0.119	0.00079694	-0.0005	4e-05	0.0003	0.0002675
30	0.116	0.11701	0.1181	0.00066039	0.1163	0.11752	0.1186	0.000712	0.0002	0.00051111	0.0008	0.00018333
50	0.1167	0.1173	0.118	0.00040552	0.1173	0.11816	0.119	0.00051467	0.0006	0.00086	0.0012	0.00020656
100	0.1161	0.11683	0.1177	0.00050343	0.1176	0.11854	0.1192	0.00059852	0.001	0.00171	0.0023	0.00049989

Device Test: 24.7 LEVEL|LOW_LEVEL/OUTL/14/14/0/0/5/500kHz//@OUT_VOL





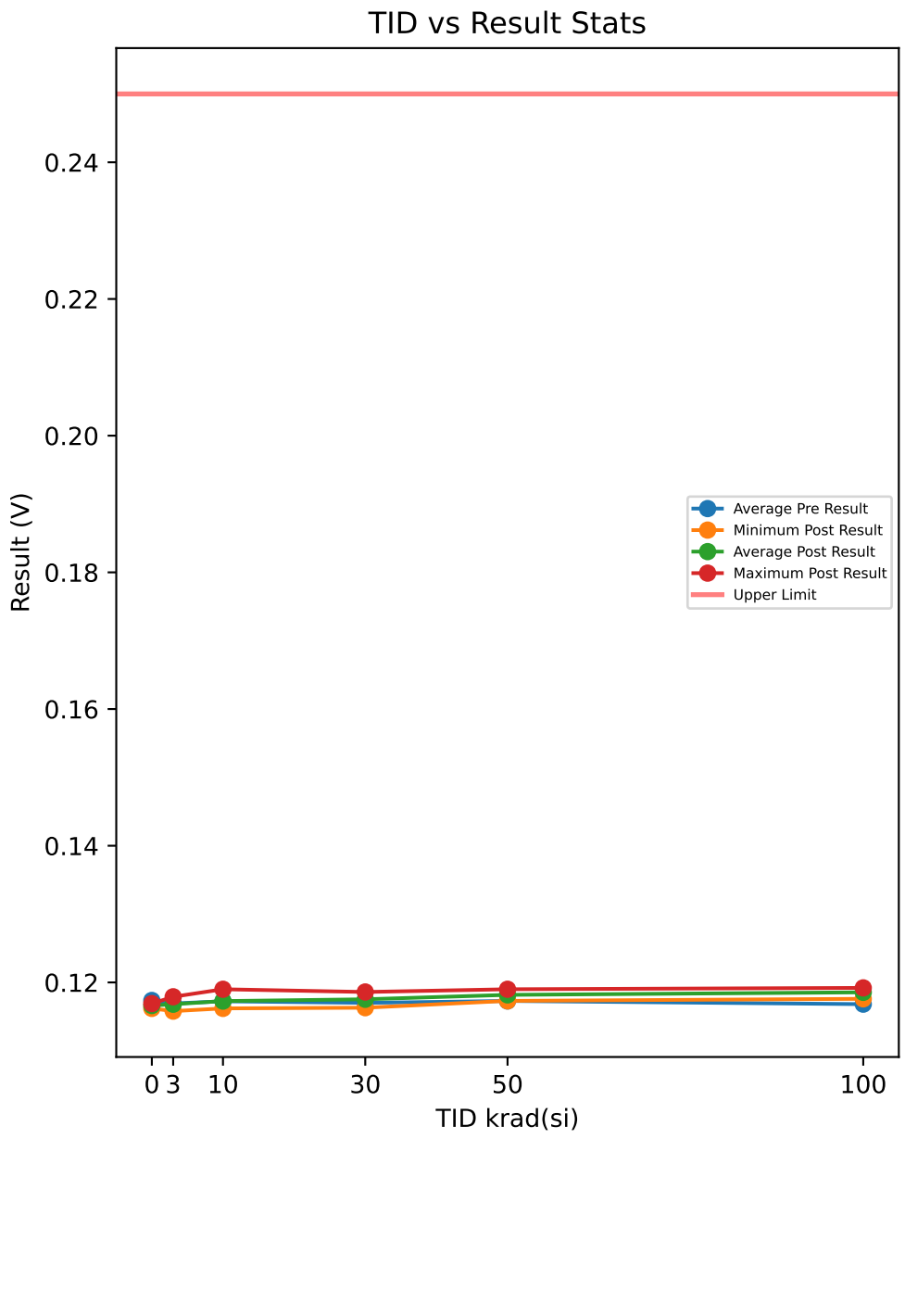
Test Results (Upper Limit = 0.15 (V))

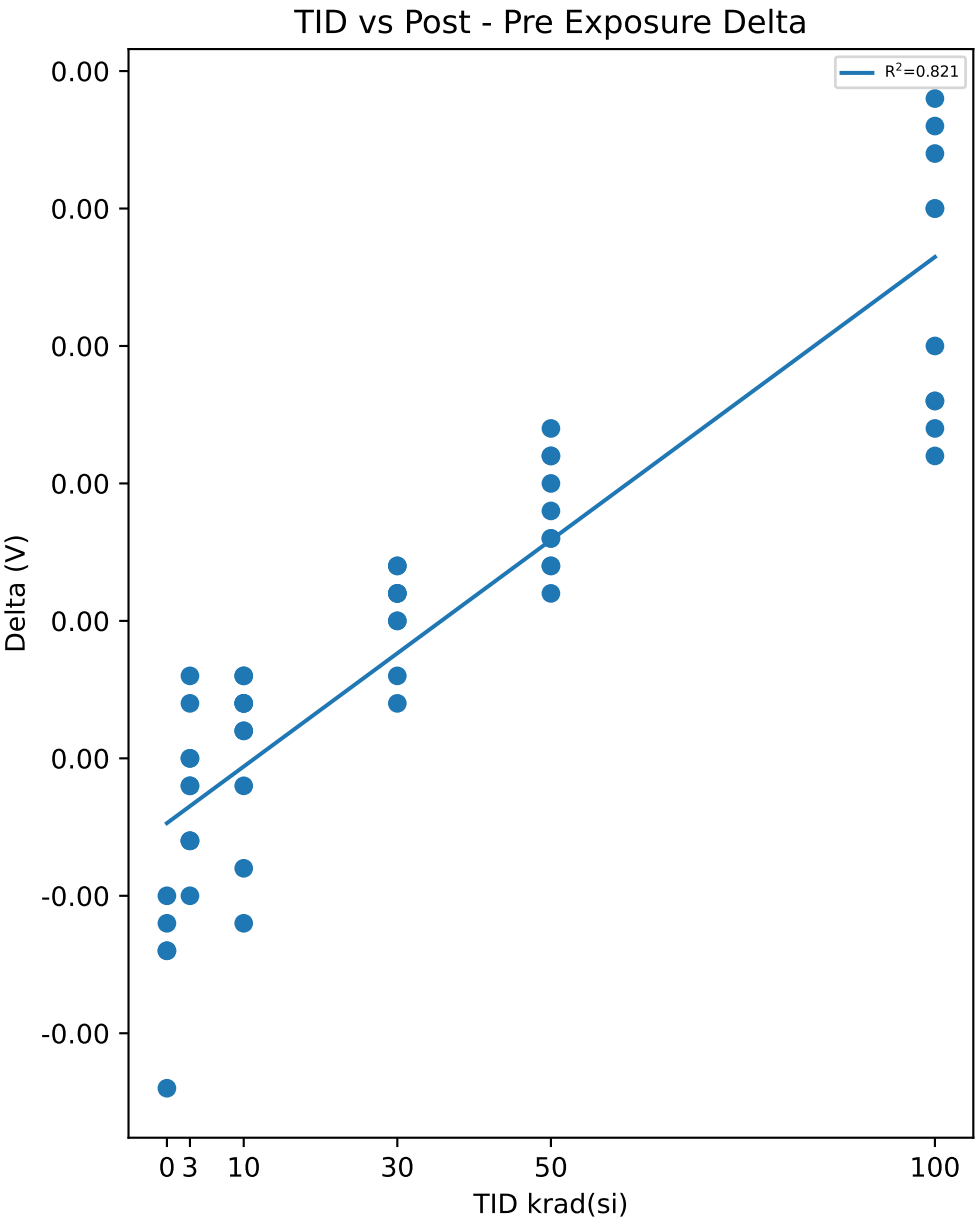
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	0.0799	0.0773	-0.0026
411	100	Unbiased	0.0799	0.078	-0.0019
444	30	Unbiased	0.0796	0.0785	-0.0011
454	10	Unbiased	0.0798	0.0791	-0.0007
491	3	Unbiased	0.0794	0.079	-0.0004
500	100	Unbiased	0.0801	0.0784	-0.0017
534	100	Biased	0.0793	0.0761	-0.0032
558	0	Correlation	0.0799	0.0794	-0.0005
563	100	Biased	0.0799	0.0766	-0.0033
570	3	Unbiased	0.0798	0.0794	-0.0004
614	10	Unbiased	0.0802	0.0793	-0.0009
675	3	Biased	0.0796	0.0773	-0.0023
713	100	Unbiased	0.0789	0.077	-0.0019
744	50	Biased	0.0811	0.078	-0.0031
799	50	Biased	0.0802	0.0776	-0.0026
842	30	Unbiased	0.08	0.079	-0.001
889	3	Unbiased	0.0793	0.0774	-0.0019
901	3	Biased	0.0795	0.079	-0.0005
930	50	Unbiased	0.0797	0.0783	-0.0014
968	100	Unbiased	0.0807	0.0785	-0.0022
976	100	Unbiased	0.0795	0.0777	-0.0018
981	3	Biased	0.0796	0.0791	-0.0005
1003	10	Biased	0.0798	0.0781	-0.0017
1039	3	Biased	0.0801	0.0772	-0.0029
1053	100	Biased	0.0799	0.0752	-0.0047
1056	0	Correlation	0.0796	0.079	-0.0006
1072	10	Biased	0.0796	0.0779	-0.0017
1095	50	Unbiased	0.08	0.0784	-0.0016
1099	0	Correlation	0.0791	0.0784	-0.0007
1113	3	Biased	0.0798	0.0774	-0.0024
1142	10	Unbiased	0.0795	0.079	-0.0005
1154	10	Biased	0.08	0.0769	-0.0031
1215	50	Unbiased	0.0798	0.0764	-0.0034
1222	100	Biased	0.0797	0.0762	-0.0035
1229	50	Unbiased	0.0798	0.0781	-0.0017
1255	3	Unbiased	0.0794	0.079	-0.0004
1331	30	Unbiased	0.0794	0.0781	-0.0013
1359	30	Biased	0.0799	0.0762	-0.0037
1375	30	Unbiased	0.0801	0.0788	-0.0013
1398	30	Biased	0.0795	0.0774	-0.0021
1411	50	Biased	0.0793	0.0747	-0.0046
1465	10	Unbiased	0.0807	0.0792	-0.0015
1474	50	Biased	0.0807	0.0768	-0.0039
1504	50	Biased	0.0813	0.0783	-0.003
1540	100	Biased	0.0802	0.0775	-0.0027
1554	3	Unbiased	0.0797	0.0793	-0.0004
1662	30	Biased	0.0803	0.0767	-0.0036
1679	10	Biased	0.0799	0.0784	-0.0015
1697	10	Biased	0.0799	0.0785	-0.0014
1703	30	Biased	0.0799	0.0773	-0.0026
1704	10	Unbiased	0.0802	0.078	-0.0022
1736	30	Biased	0.0805	0.078	-0.0025
1737	0	Correlation	0.08	0.0795	-0.0005
1748	0	Correlation	0.081	0.0788	-0.0022

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.0791	0.07992	0.081	0.00069785	0.0784	0.07902	0.0795	0.00044944	-0.0022	-0.0009	-0.0005	0.00073144
3	0.0793	0.07962	0.0801	0.00023944	0.0772	0.07841	0.0794	0.00094452	-0.0029	-0.00121	-0.0004	0.0010311
10	0.0795	0.07996	0.0807	0.00034383	0.0769	0.07844	0.0793	0.00074863	-0.0031	-0.00152	-0.0005	0.00075542
30	0.0794	0.079911	0.0805	0.00036553	0.0762	0.077778	0.079	0.00095102	-0.0037	-0.0021333	-0.001	0.0010428
50	0.0793	0.08018	0.0813	0.00064773	0.0747	0.07739	0.0784	0.0011628	-0.0046	-0.00279	-0.0014	0.0010344
100	0.0789	0.07981	0.0807	0.00049989	0.0752	0.07712	0.0785	0.0010881	-0.0047	-0.00269	-0.0017	0.0009769

Device Test: 24.8 LEVEL|HIGH_LEVEL/OUTH/14/14/0/0/5/500kHz//@OUT_VOH





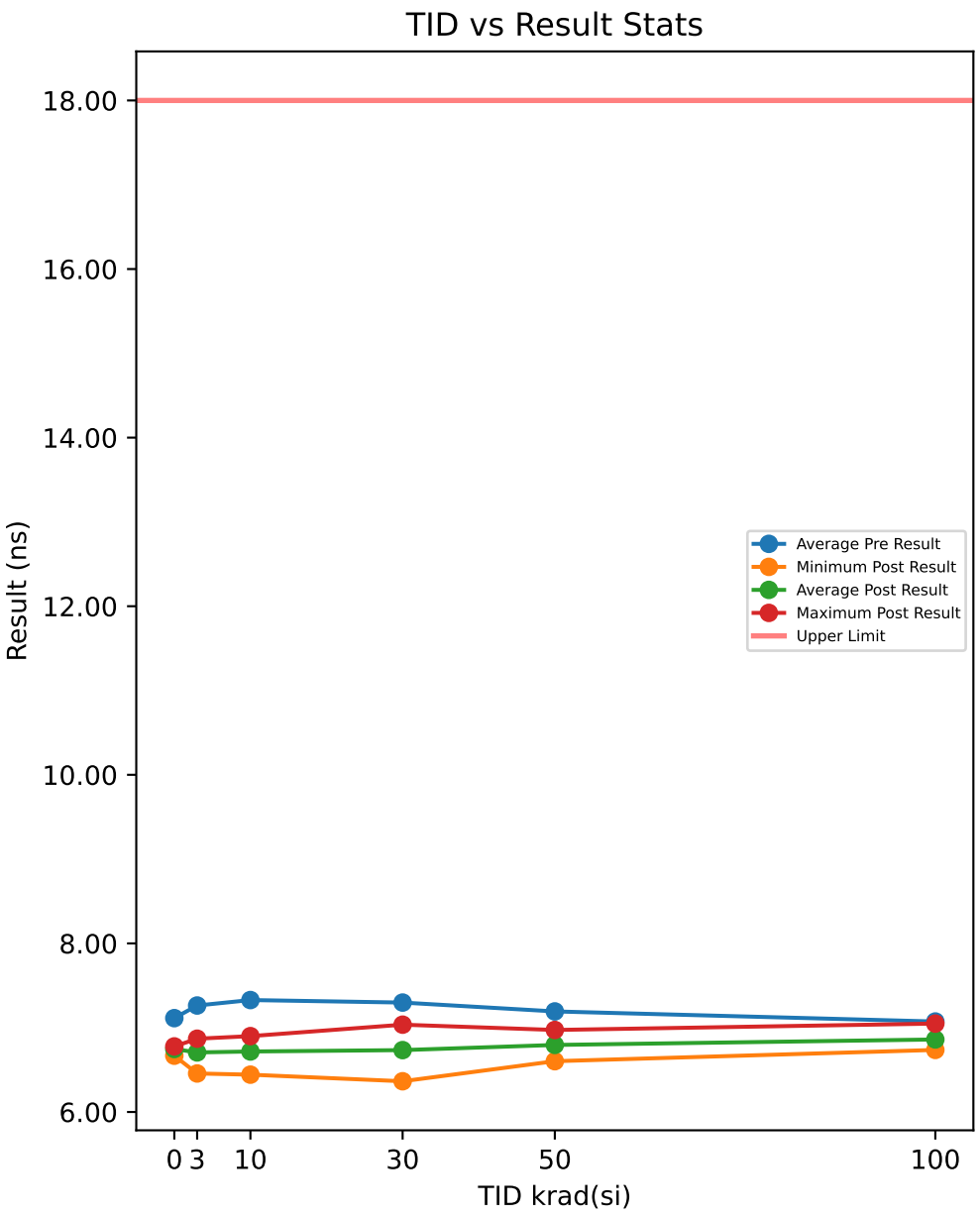
Test Results (Upper Limit = 0.25 (V))

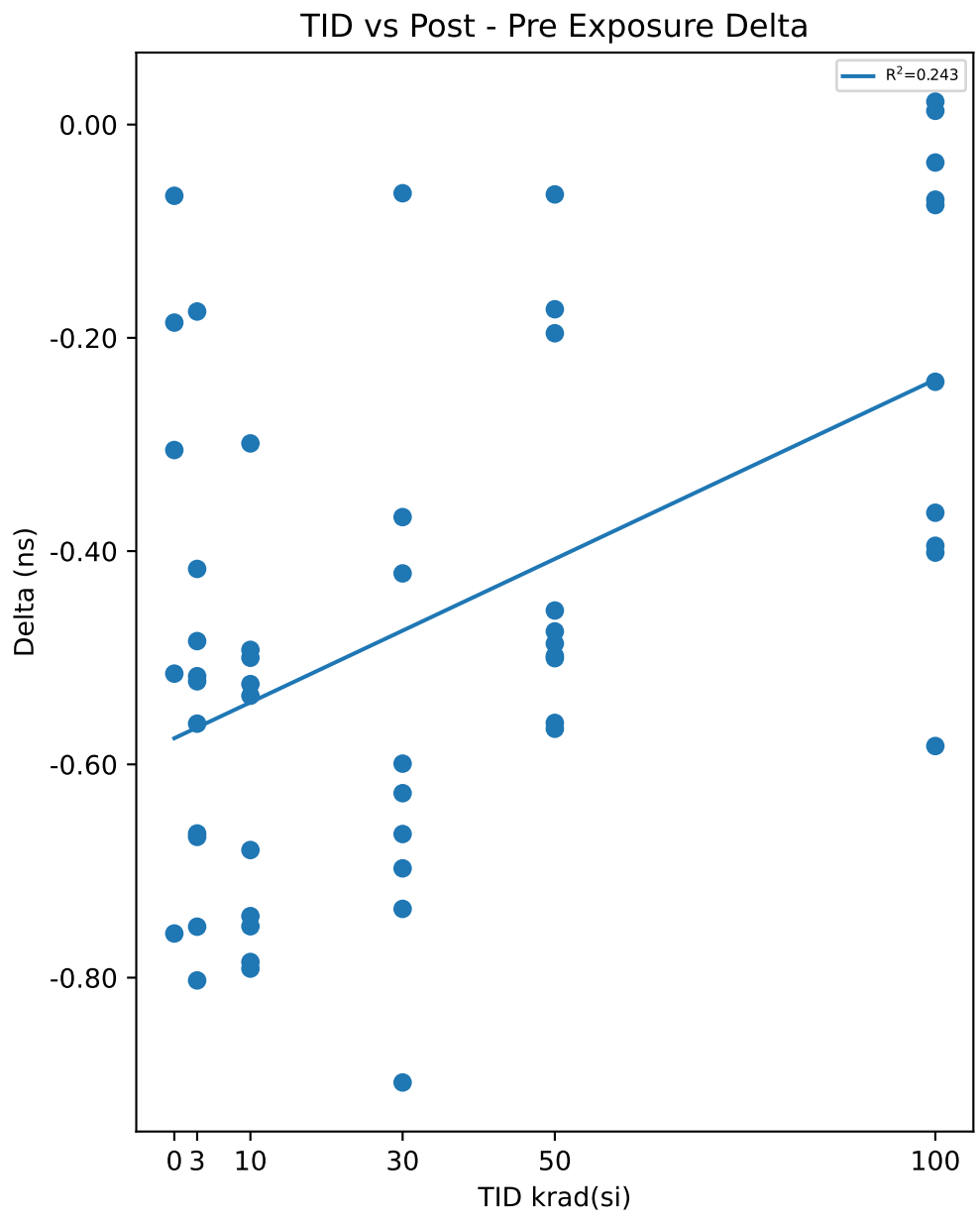
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	0.1177	0.1185	0.0008
411	100	Unbiased	0.1165	0.1176	0.0011
444	30	Unbiased	0.116	0.1163	0.0003
454	10	Unbiased	0.1172	0.1174	0.0002
491	3	Unbiased	0.1169	0.1166	-0.0003
500	100	Unbiased	0.1167	0.1179	0.0012
534	100	Biased	0.1169	0.1191	0.0022
558	0	Correlation	0.1169	0.1162	-0.0007
563	100	Biased	0.1161	0.1185	0.0024
570	3	Unbiased	0.1168	0.1167	-0.0001
614	10	Unbiased	0.1161	0.1162	0.0001
675	3	Biased	0.1173	0.1173	0
713	100	Unbiased	0.1177	0.119	0.0013
744	50	Biased	0.1174	0.1185	0.0011
799	50	Biased	0.1179	0.119	0.0011
842	30	Unbiased	0.1181	0.1186	0.0005
889	3	Unbiased	0.1175	0.117	-0.0005
901	3	Biased	0.1156	0.1158	0.0002
930	50	Unbiased	0.1167	0.1177	0.001
968	100	Unbiased	0.1167	0.118	0.0013
976	100	Unbiased	0.1174	0.1189	0.0015
981	3	Biased	0.1163	0.1163	0
1003	10	Biased	0.1175	0.1176	0.0001
1039	3	Biased	0.1174	0.1171	-0.0003
1053	100	Biased	0.1172	0.1192	0.002
1056	0	Correlation	0.1175	0.1169	-0.0006
1072	10	Biased	0.1194	0.119	-0.0004
1095	50	Unbiased	0.1172	0.1179	0.0007
1099	0	Correlation	0.1178	0.1166	-0.0012
1113	3	Biased	0.118	0.1179	-0.0001
1142	10	Unbiased	0.1159	0.1162	0.0003
1154	10	Biased	0.1173	0.1175	0.0002
1215	50	Unbiased	0.1167	0.1173	0.0006
1222	100	Biased	0.1169	0.1192	0.0023
1229	50	Unbiased	0.1172	0.1179	0.0007
1255	3	Unbiased	0.1168	0.1165	-0.0003
1331	30	Unbiased	0.117	0.1176	0.0006
1359	30	Biased	0.1166	0.1172	0.0006
1375	30	Unbiased	0.1173	0.1175	0.0002
1398	30	Biased	0.1163	0.1169	0.0006
1411	50	Biased	0.1175	0.1183	0.0008
1465	10	Unbiased	0.1175	0.1169	-0.0006
1474	50	Biased	0.1175	0.1187	0.0012
1504	50	Biased	0.1171	0.118	0.0009
1540	100	Biased	0.1161	0.1181	0.002
1554	3	Unbiased	0.1166	0.1169	0.0003
1662	30	Biased	0.1175	0.118	0.0005
1679	10	Biased	0.1173	0.1176	0.0003
1697	10	Biased	0.1174	0.1173	-0.0001
1703	30	Biased	0.1168	0.1175	0.0007
1704	10	Unbiased	0.1168	0.117	0.0002
1736	30	Biased	0.1175	0.1182	0.0007
1737	0	Correlation	0.1176	0.1169	-0.0007
1748	0	Correlation	0.117	0.1165	-0.0005

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.1169	0.11736	0.1178	0.00039115	0.1162	0.11662	0.1169	0.00029496	-0.0012	-0.00074	-0.0005	0.00027019
3	0.1156	0.11692	0.118	0.00067791	0.1158	0.11681	0.1179	0.00057629	-0.0005	-0.00011	0.0003	0.00024698
10	0.1159	0.11724	0.1194	0.00095009	0.1162	0.11727	0.119	0.00080146	-0.0006	3e-05	0.0003	0.00030569
30	0.116	0.11701	0.1181	0.00066039	0.1163	0.11753	0.1186	0.00069282	0.0002	0.00052222	0.0007	0.00017159
50	0.1167	0.11729	0.1179	0.00039285	0.1173	0.11818	0.119	0.00051164	0.0006	0.00089	0.0012	0.00020248
100	0.1161	0.11682	0.1177	0.00052026	0.1176	0.11855	0.1192	0.00060599	0.0011	0.00173	0.0024	0.000499

Device Test: 24.9 TIMING|OUT_RISE/OUTH/12/12/0/1000/5/500kHz//@OUT_RISE_12V





Test Results (Upper Limit = 18.0 (ns))

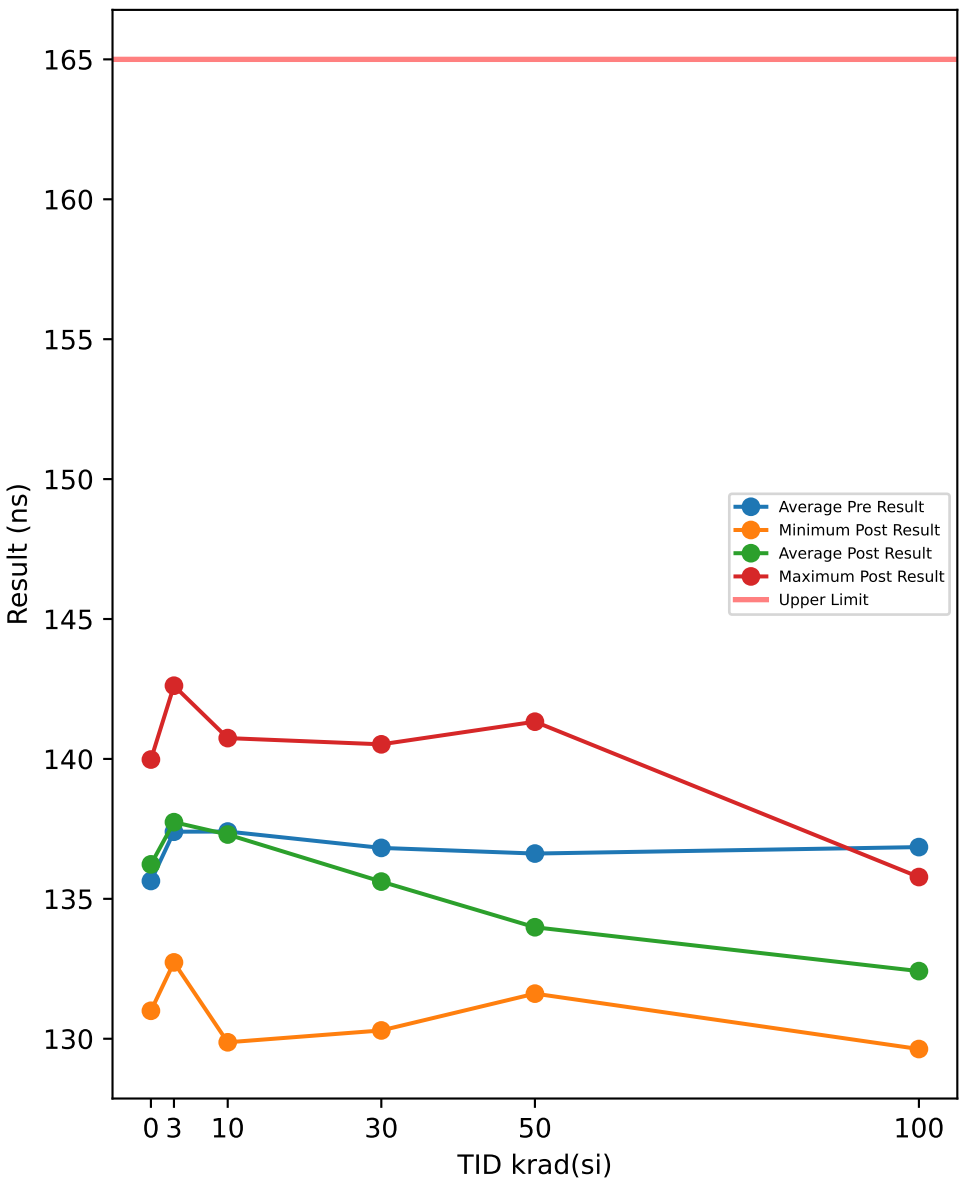
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	7.1462	6.973	-0.1732
411	100	Unbiased	7.3704	7.0064	-0.364
444	30	Unbiased	7.2745	6.9064	-0.3681
454	10	Unbiased	7.5148	6.763	-0.7518
491	3	Unbiased	7.2406	6.8239	-0.4167
500	100	Unbiased	6.9303	6.9518	0.0215
534	100	Biased	7.345	6.7622	-0.5828
558	0	Correlation	6.8178	6.751	-0.0668
563	100	Biased	7.1817	6.7803	-0.4014
570	3	Unbiased	7.2594	6.4568	-0.8026
614	10	Unbiased	7.1231	6.4428	-0.6803
675	3	Biased	6.8832	6.7079	-0.1753
713	100	Unbiased	7.1332	6.7382	-0.395
744	50	Biased	7.2201	6.7197	-0.5004
799	50	Biased	7.3611	6.8	-0.5611
842	30	Unbiased	7.1002	7.0358	-0.0644
889	3	Unbiased	7.3811	6.7163	-0.6648
901	3	Biased	7.2465	6.7244	-0.5221
930	50	Unbiased	6.7982	6.6025	-0.1957
968	100	Unbiased	6.9099	6.8344	-0.0755
976	100	Unbiased	7.2899	7.0487	-0.2412
981	3	Biased	7.3018	6.8174	-0.4844
1003	10	Biased	7.3441	6.5526	-0.7915
1039	3	Biased	7.3735	6.6213	-0.7522
1053	100	Biased	6.905	6.8346	-0.0704
1056	0	Correlation	7.5252	6.7666	-0.7586
1072	10	Biased	7.5365	6.7942	-0.7423
1095	50	Unbiased	7.3032	6.8049	-0.4983
1099	0	Correlation	6.9728	6.6676	-0.3052
1113	3	Biased	7.3866	6.8693	-0.5173
1142	10	Unbiased	7.283	6.7474	-0.5356
1154	10	Biased	7.3914	6.6061	-0.7853
1215	50	Unbiased	7.3348	6.7682	-0.5666
1222	100	Biased	6.8956	6.9085	0.0129
1229	50	Unbiased	7.2213	6.7656	-0.4557
1255	3	Unbiased	7.3113	6.7495	-0.5618
1331	30	Unbiased	7.3261	6.7268	-0.5993
1359	30	Biased	7.3259	6.6606	-0.6653
1375	30	Unbiased	7.4538	6.7563	-0.6975
1398	30	Biased	7.2628	6.3645	-0.8983
1411	50	Biased	6.7802	6.7147	-0.0655
1465	10	Unbiased	7.199	6.9	-0.299
1474	50	Biased	7.3256	6.8389	-0.4867
1504	50	Biased	7.4394	6.9641	-0.4753
1540	100	Biased	6.7718	6.7362	-0.0356
1554	3	Unbiased	7.2469	6.5789	-0.668
1662	30	Biased	7.3828	6.7558	-0.627
1679	10	Biased	7.355	6.855	-0.5
1697	10	Biased	7.2644	6.7397	-0.5247
1703	30	Biased	7.3019	6.5664	-0.7355
1704	10	Unbiased	7.2682	6.7756	-0.4926
1736	30	Biased	7.2548	6.8339	-0.4209
1737	0	Correlation	7.2929	6.778	-0.5149
1748	0	Correlation	6.9579	6.7722	-0.1857

Test Statistics (ns)

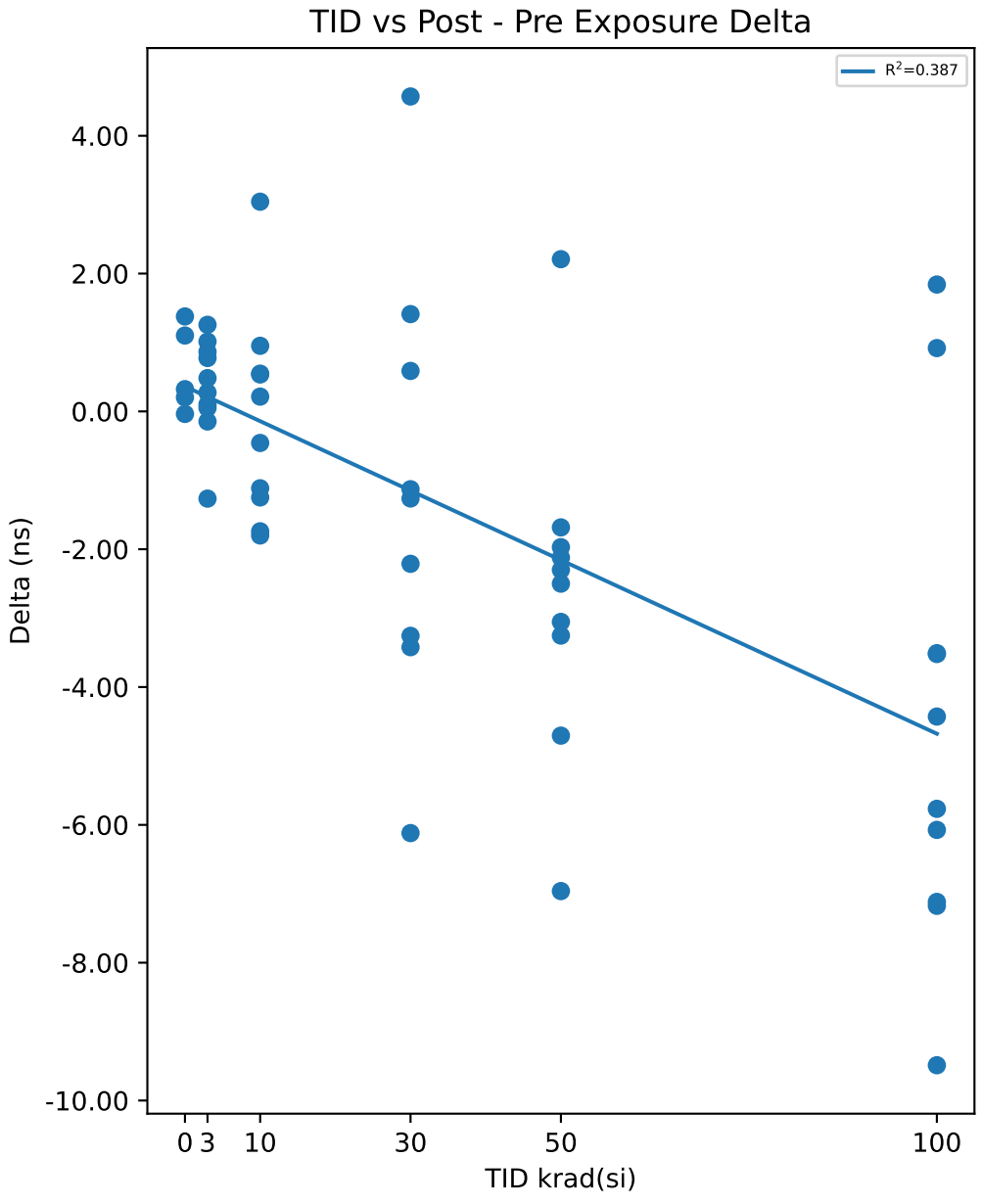
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	6.8178	7.1133	7.5252	0.28859	6.6676	6.7471	6.778	0.045554	-0.7586	-0.36624	-0.0668	0.27479
3	6.8832	7.2631	7.3866	0.14551	6.4568	6.7066	6.8693	0.12505	-0.8026	-0.55652	-0.1753	0.1813
10	7.1231	7.3279	7.5365	0.12981	6.4428	6.7176	6.9	0.14142	-0.7915	-0.61031	-0.299	0.16386
30	7.1002	7.2981	7.4538	0.097359	6.3645	6.7341	7.0358	0.19423	-0.8983	-0.56403	-0.0644	0.24569
50	6.7802	7.193	7.4394	0.22823	6.6025	6.7952	6.973	0.11209	-0.5666	-0.39785	-0.0655	0.18097
100	6.7718	7.0733	7.3704	0.21661	6.7362	6.8601	7.0487	0.11314	-0.5828	-0.21315	0.0215	0.21232

Device Test: 26.3 TIMING|MIN/OUT/12/12/0/0/5/500kHz//@TON_MIN

TID vs Result Stats



TID vs Post - Pre Exposure Delta



Test Results (Upper Limit = 165.0 (ns))

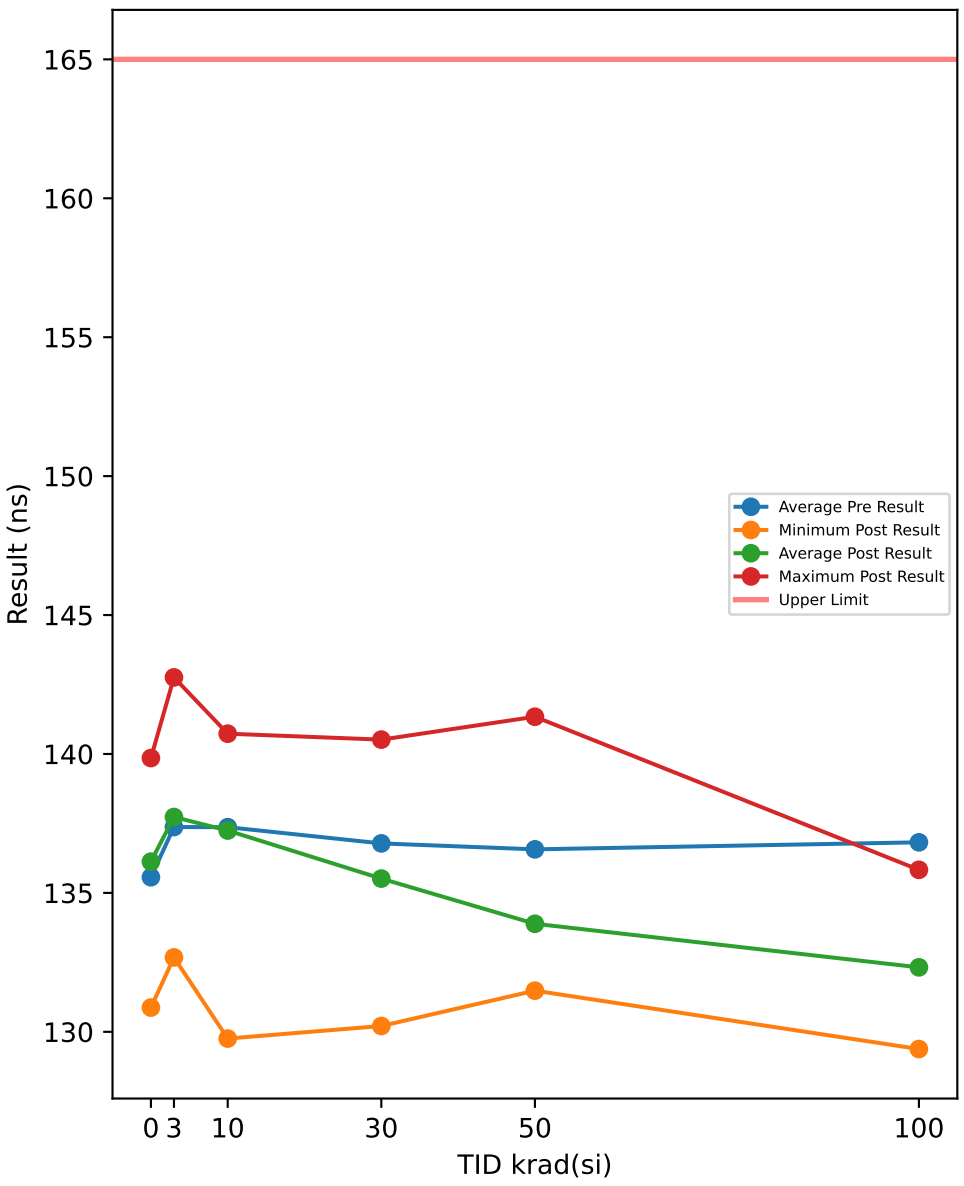
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	135.82	132.57	-3.253
411	100	Unbiased	137.96	130.84	-7.118
444	30	Unbiased	134.16	130.91	-3.2567
454	10	Unbiased	140.09	140.3	0.2146
491	3	Unbiased	137.41	137.89	0.4829
500	100	Unbiased	135.97	129.9	-6.0728
534	100	Biased	135.4	129.63	-5.7672
558	0	Correlation	136.67	136.99	0.3227
563	100	Biased	136.16	132.64	-3.5203
570	3	Unbiased	139.02	140.03	1.0133
614	10	Unbiased	134.93	133.82	-1.1156
675	3	Biased	133.99	132.73	-1.2656
713	100	Unbiased	137.86	134.35	-3.5089
744	50	Biased	136.48	134.36	-2.121
799	50	Biased	134.4	131.9	-2.4994
842	30	Unbiased	135.91	136.5	0.5873
889	3	Unbiased	133.52	133.8	0.273
901	3	Biased	141.75	142.62	0.8656
930	50	Unbiased	135.72	134.04	-1.6833
968	100	Unbiased	143.09	133.6	-9.4879
976	100	Unbiased	139.56	135.14	-4.4282
981	3	Biased	133.99	135.25	1.2568
1003	10	Biased	134.43	137.47	3.0429
1039	3	Biased	140.51	140.61	0.103
1053	100	Biased	134.86	135.78	0.9189
1056	0	Correlation	131.04	131	-0.0368
1072	10	Biased	135.81	136.76	0.9518
1095	50	Unbiased	138.6	135.55	-3.0547
1099	0	Correlation	136.1	137.48	1.3779
1113	3	Biased	140.68	140.53	-0.1462
1142	10	Unbiased	136.78	134.98	-1.8005
1154	10	Biased	141.2	140.74	-0.4578
1215	50	Unbiased	133.95	131.98	-1.97
1222	100	Biased	130.37	132.21	1.841
1229	50	Unbiased	137.6	132.9	-4.7051
1255	3	Unbiased	139.38	139.43	0.0519
1331	30	Unbiased	140.92	139.79	-1.1295
1359	30	Biased	135.95	140.52	4.5699
1375	30	Unbiased	133.72	130.3	-3.4214
1398	30	Biased	135.34	136.76	1.4117
1411	50	Biased	138.57	131.61	-6.9611
1465	10	Unbiased	138.26	138.81	0.5475
1474	50	Biased	139.12	141.33	2.2089
1504	50	Biased	135.91	133.61	-2.2994
1540	100	Biased	137.25	130.07	-7.1745
1554	3	Unbiased	133.73	134.5	0.775
1662	30	Biased	138.6	137.34	-1.2635
1679	10	Biased	131.12	129.87	-1.2483
1697	10	Biased	140.15	140.68	0.5359
1703	30	Biased	137.5	135.29	-2.2119
1704	10	Unbiased	141.27	139.53	-1.7402
1736	30	Biased	139.27	133.15	-6.1193
1737	0	Correlation	138.88	139.98	1.1013
1748	0	Correlation	135.51	135.72	0.2036

Test Statistics (ns)

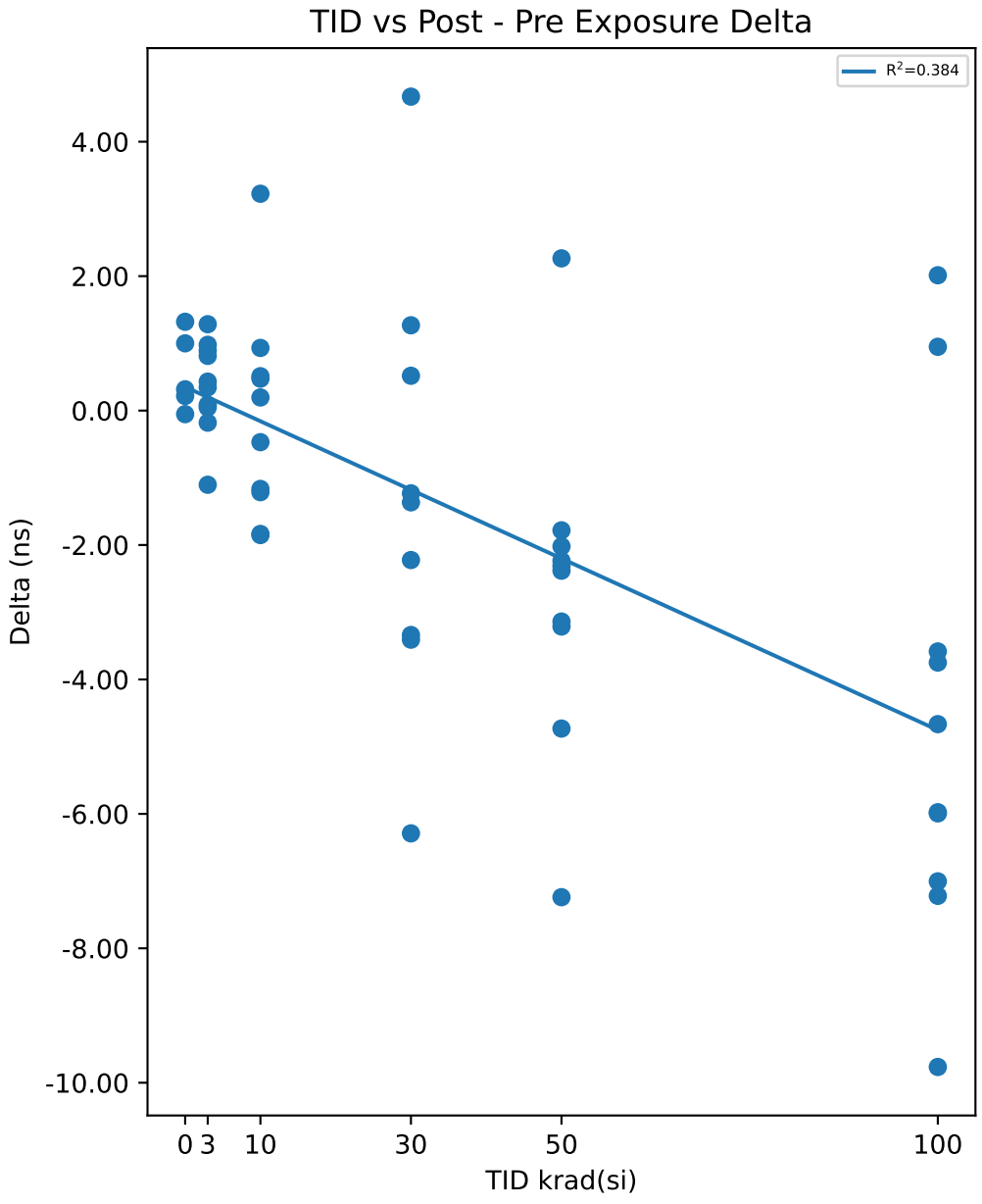
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	131.04	135.64	138.88	2.8701	131	136.23	139.98	3.3089	-0.0368	0.59374	1.3779	0.61151
3	133.52	137.4	141.75	3.2932	132.73	137.74	142.62	3.4206	-1.2656	0.34097	1.2568	0.72555
10	131.12	137.41	141.27	3.3703	129.87	137.3	140.74	3.5372	-1.8005	-0.10697	3.0429	1.4895
30	133.72	136.82	140.92	2.4211	130.3	135.62	140.52	3.5919	-6.1193	-1.2037	4.5699	3.1166
50	133.95	136.62	139.12	1.7943	131.61	133.98	141.33	2.8647	-6.9611	-2.6338	2.2089	2.3277
100	130.37	136.85	143.09	3.3011	129.63	132.42	135.78	2.2613	-9.4879	-4.4318	1.841	3.5659

Device Test: 26.4 TIMING|MIN/OUT/14/14/0/0/5/500kHz//@TON_MIN

TID vs Result Stats



TID vs Post - Pre Exposure Delta



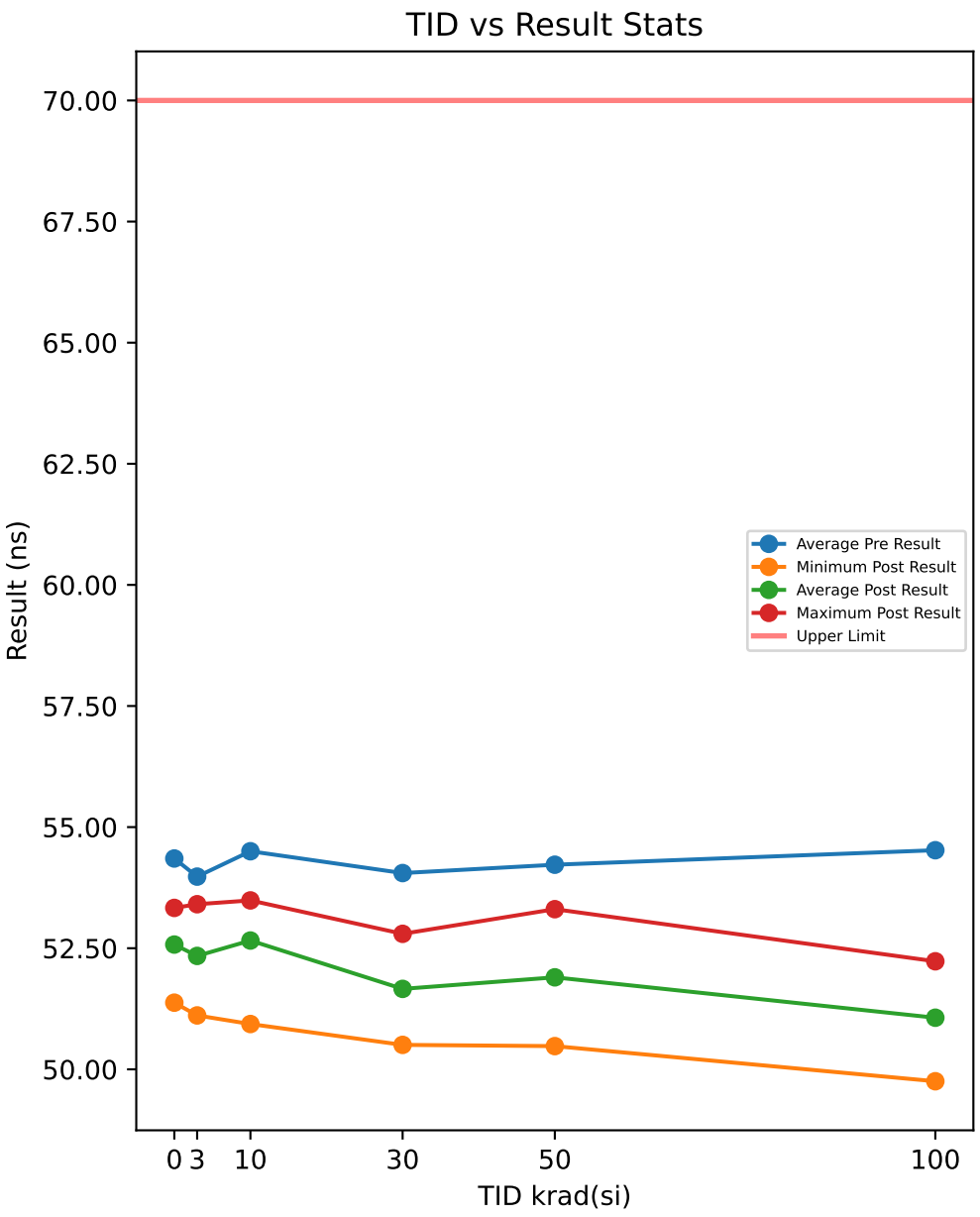
Test Results (Upper Limit = 165.0 (ns))

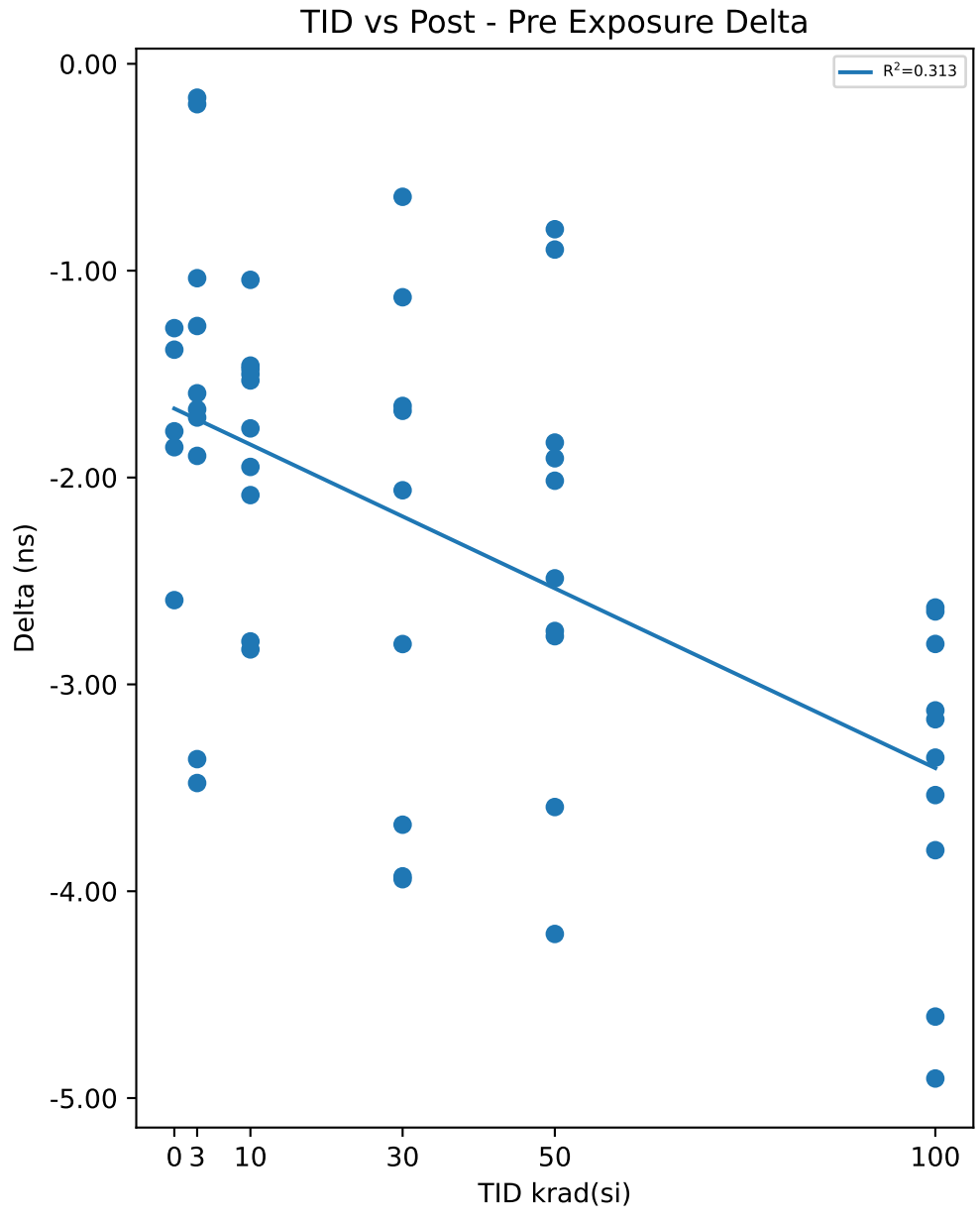
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	135.69	132.48	-3.2126
411	100	Unbiased	137.95	130.73	-7.2194
444	30	Unbiased	134.05	130.71	-3.3388
454	10	Unbiased	140.12	140.32	0.1953
491	3	Unbiased	137.49	137.92	0.4309
500	100	Unbiased	135.81	129.83	-5.9755
534	100	Biased	135.37	129.38	-5.9928
558	0	Correlation	136.59	136.91	0.3165
563	100	Biased	136.09	132.51	-3.5839
570	3	Unbiased	139.09	140.07	0.9785
614	10	Unbiased	134.86	133.65	-1.2141
675	3	Biased	133.78	132.68	-1.1037
713	100	Unbiased	137.9	134.15	-3.7486
744	50	Biased	136.43	134.2	-2.235
799	50	Biased	134.23	131.85	-2.3821
842	30	Unbiased	135.82	136.34	0.5178
889	3	Unbiased	133.4	133.74	0.3455
901	3	Biased	141.86	142.76	0.8927
930	50	Unbiased	135.67	133.89	-1.7816
968	100	Unbiased	143.21	133.44	-9.7654
976	100	Unbiased	139.62	134.96	-4.6652
981	3	Biased	133.83	135.11	1.2847
1003	10	Biased	134.27	137.5	3.2258
1039	3	Biased	140.55	140.64	0.0863
1053	100	Biased	134.88	135.83	0.949
1056	0	Correlation	130.93	130.87	-0.0532
1072	10	Biased	135.71	136.64	0.932
1095	50	Unbiased	138.55	135.41	-3.1388
1099	0	Correlation	136.06	137.38	1.3212
1113	3	Biased	140.71	140.53	-0.1798
1142	10	Unbiased	136.71	134.86	-1.8518
1154	10	Biased	141.2	140.73	-0.47
1215	50	Unbiased	133.85	131.83	-2.0201
1222	100	Biased	130.2	132.21	2.0133
1229	50	Unbiased	137.65	132.91	-4.7309
1255	3	Unbiased	139.42	139.47	0.0475
1331	30	Unbiased	140.96	139.72	-1.2311
1359	30	Biased	135.85	140.52	4.6706
1375	30	Unbiased	133.62	130.21	-3.4083
1398	30	Biased	135.32	136.58	1.2691
1411	50	Biased	138.72	131.48	-7.2395
1465	10	Unbiased	138.27	138.75	0.4749
1474	50	Biased	139.08	141.34	2.2646
1504	50	Biased	135.81	133.5	-2.3124
1540	100	Biased	137.18	130.18	-7.0042
1554	3	Unbiased	133.58	134.39	0.8137
1662	30	Biased	138.62	137.25	-1.3651
1679	10	Biased	130.92	129.76	-1.1658
1697	10	Biased	140.21	140.72	0.5112
1703	30	Biased	137.52	135.3	-2.2236
1704	10	Unbiased	141.37	139.54	-1.8357
1736	30	Biased	139.29	133	-6.2901
1737	0	Correlation	138.85	139.85	1.0005
1748	0	Correlation	135.39	135.6	0.2171

Test Statistics (ns)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	130.93	135.56	138.85	2.9008	130.87	136.12	139.85	3.3148	-0.0532	0.56042	1.3212	0.57584
3	133.4	137.37	141.86	3.4029	132.68	137.73	142.76	3.4878	-1.1037	0.35963	1.2847	0.69433
10	130.92	137.36	141.37	3.4604	129.76	137.24	140.73	3.5942	-1.8518	-0.11982	3.2258	1.5459
30	133.62	136.78	140.96	2.4765	130.21	135.51	140.52	3.6261	-6.2901	-1.2666	4.6706	3.1604
50	133.85	136.57	139.08	1.8578	131.48	133.89	141.34	2.8916	-7.2395	-2.6788	2.2646	2.3945
100	130.2	136.82	143.21	3.3747	129.38	132.32	135.83	2.2575	-9.7654	-4.4993	2.0133	3.6415

Device Test: 26.5 TIMING|EXT/OUT/14/14/0/0/5/500kHz//@T_OFF_EXTENDER





Test Results (Upper Limit = 70.0 (ns))

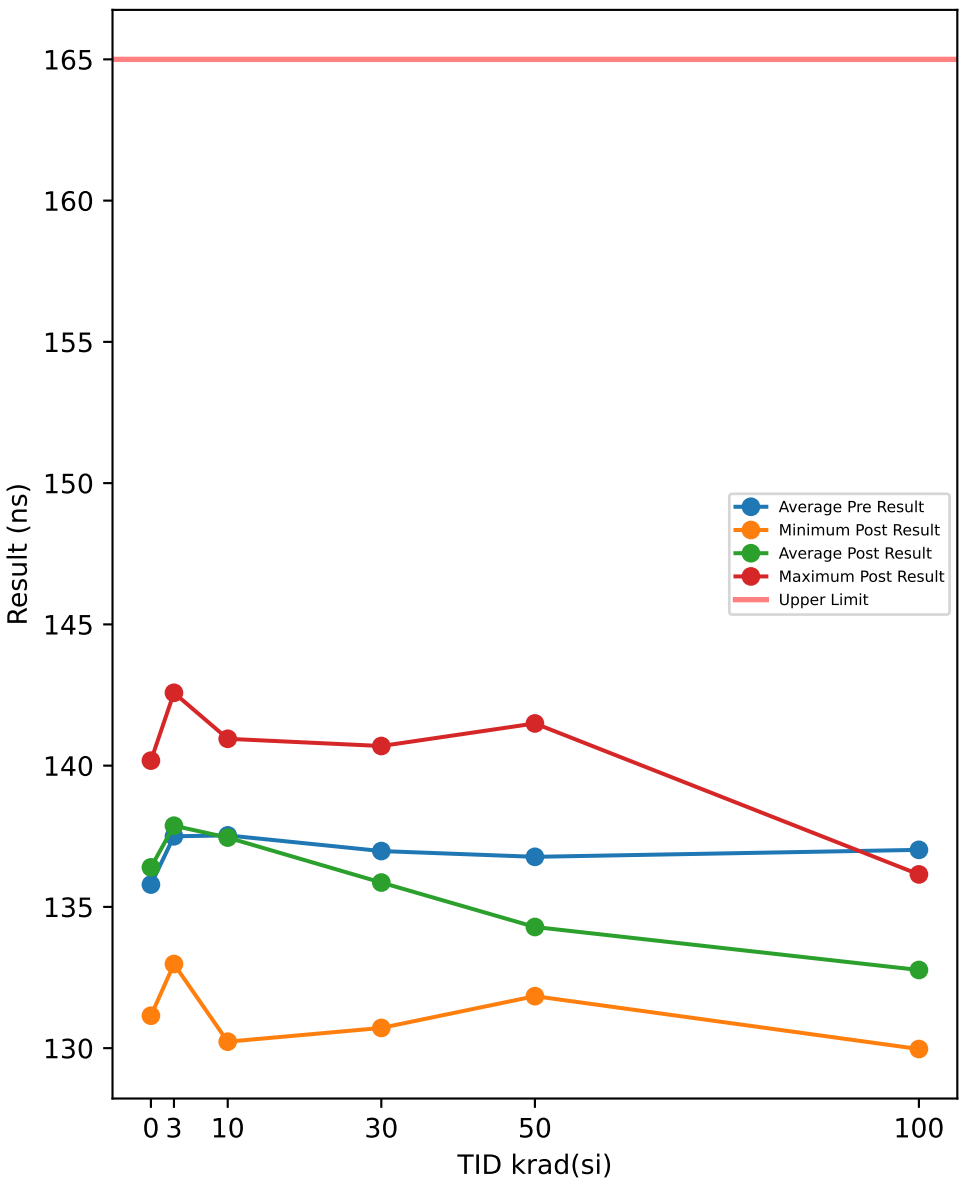
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	54.895	52.128	-2.7671
411	100	Unbiased	54.659	49.754	-4.9054
444	30	Unbiased	54.556	50.614	-3.9419
454	10	Unbiased	54.76	53.301	-1.4589
491	3	Unbiased	54.907	53.315	-1.5927
500	100	Unbiased	54.877	52.23	-2.6474
534	100	Biased	54.971	52.166	-2.8046
558	0	Correlation	54.667	53.285	-1.382
563	100	Biased	54.472	50.67	-3.8017
570	3	Unbiased	53.293	52.257	-1.0363
614	10	Unbiased	53.252	52.208	-1.0443
675	3	Biased	55.118	53.408	-1.71
713	100	Unbiased	53.512	50.344	-3.1687
744	50	Biased	55.322	53.306	-2.0155
799	50	Biased	53.226	51.319	-1.9071
842	30	Unbiased	54.733	51.055	-3.6784
889	3	Unbiased	53.202	53.038	-0.1637
901	3	Biased	54.614	51.253	-3.3614
930	50	Unbiased	54.861	51.268	-3.593
968	100	Unbiased	54.562	51.436	-3.1258
976	100	Unbiased	53.327	49.972	-3.3541
981	3	Biased	53.008	51.113	-1.8954
1003	10	Biased	54.968	53.467	-1.5006
1039	3	Biased	54.898	53.228	-1.6704
1053	100	Biased	55.005	51.47	-3.5352
1056	0	Correlation	54.61	53.332	-1.2779
1072	10	Biased	55.025	52.232	-2.7923
1095	50	Unbiased	53.157	52.259	-0.8979
1099	0	Correlation	54.731	52.138	-2.5928
1113	3	Biased	53.061	52.866	-0.1953
1142	10	Unbiased	55.018	53.487	-1.5308
1154	10	Biased	55.008	53.246	-1.7625
1215	50	Unbiased	54.756	52.014	-2.7419
1222	100	Biased	55.01	50.404	-4.606
1229	50	Unbiased	53.255	51.424	-1.831
1255	3	Unbiased	54.855	51.379	-3.4769
1331	30	Unbiased	54.719	51.914	-2.8051
1359	30	Biased	54.601	52.539	-2.0616
1375	30	Unbiased	54.433	50.505	-3.9281
1398	30	Biased	54.475	52.797	-1.6775
1411	50	Biased	54.878	52.391	-2.4874
1465	10	Unbiased	54.551	51.72	-2.831
1474	50	Biased	53.201	52.401	-0.7997
1504	50	Biased	54.686	50.479	-4.2066
1540	100	Biased	54.833	52.205	-2.6284
1554	3	Unbiased	52.823	51.556	-1.2675
1662	30	Biased	53.014	52.371	-0.6429
1679	10	Biased	54.761	53.285	-1.4758
1697	10	Biased	52.884	50.935	-1.9488
1703	30	Biased	52.784	51.13	-1.6539
1704	10	Unbiased	54.791	52.706	-2.085
1736	30	Biased	53.148	52.02	-1.1285
1737	0	Correlation	53.229	51.376	-1.8536
1748	0	Correlation	54.523	52.746	-1.7766

Test Statistics (ns)

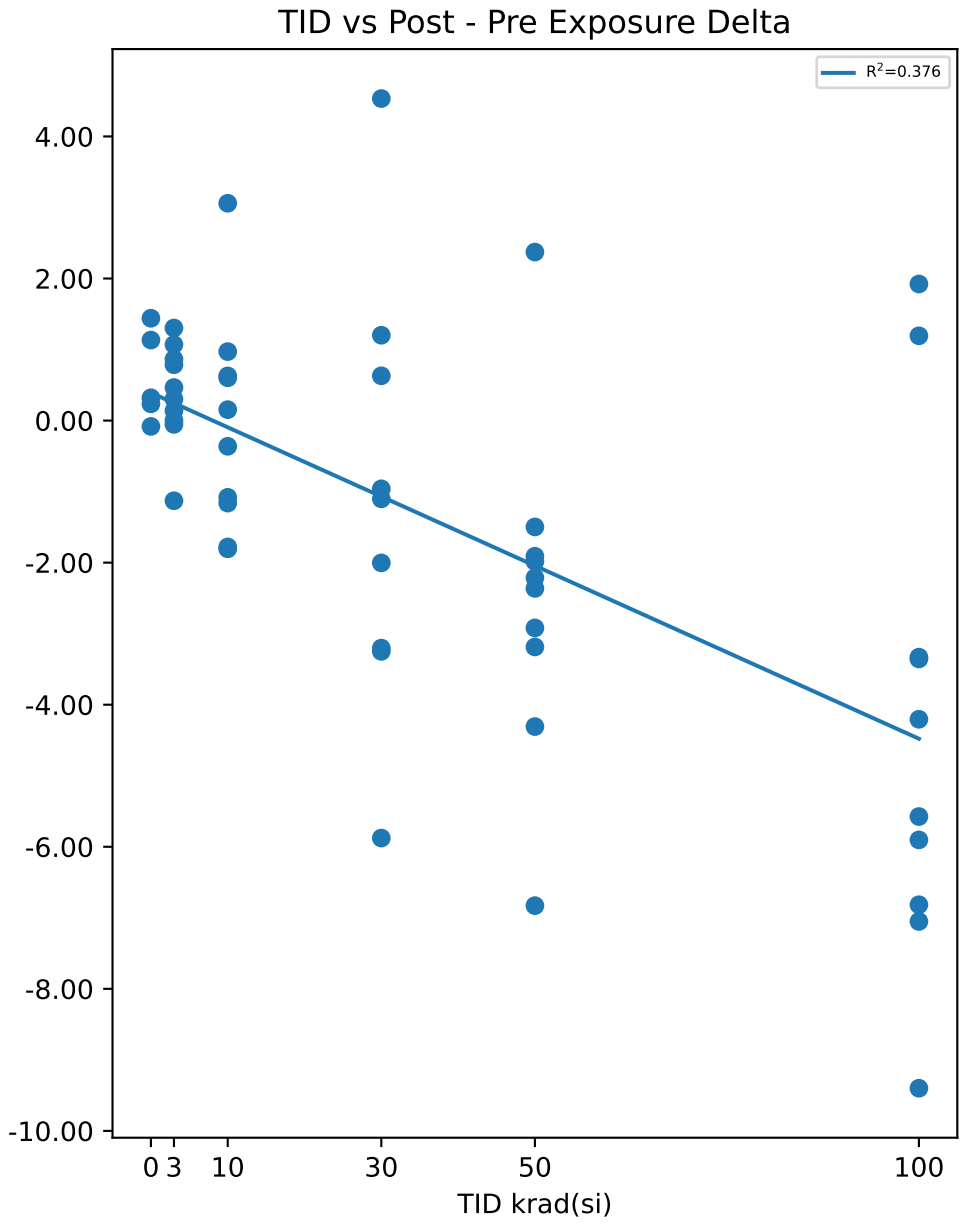
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	53.229	54.352	54.731	0.63221	51.376	52.575	53.332	0.82689	-2.5928	-1.7766	-1.2779	0.51878
3	52.823	53.978	55.118	0.96446	51.113	52.341	53.408	0.93554	-3.4769	-1.637	-0.1637	1.1146
10	52.884	54.502	55.025	0.77547	50.935	52.659	53.487	0.86459	-2.831	-1.843	-1.0443	0.58581
30	52.784	54.051	54.733	0.81313	50.505	51.661	52.797	0.85459	-3.9419	-2.3909	-0.6429	1.2454
50	53.157	54.224	55.322	0.88855	50.479	51.899	53.306	0.79202	-4.2066	-2.3247	-0.7997	1.0761
100	53.327	54.523	55.01	0.61175	49.754	51.065	52.23	0.95439	-4.9054	-3.4577	-2.6284	0.78273

Device Test: 26.7 TIMING|MIN/OUT/8/8/0/0/5/500kHz//@TON_MIN

TID vs Result Stats



TID vs Post - Pre Exposure Delta



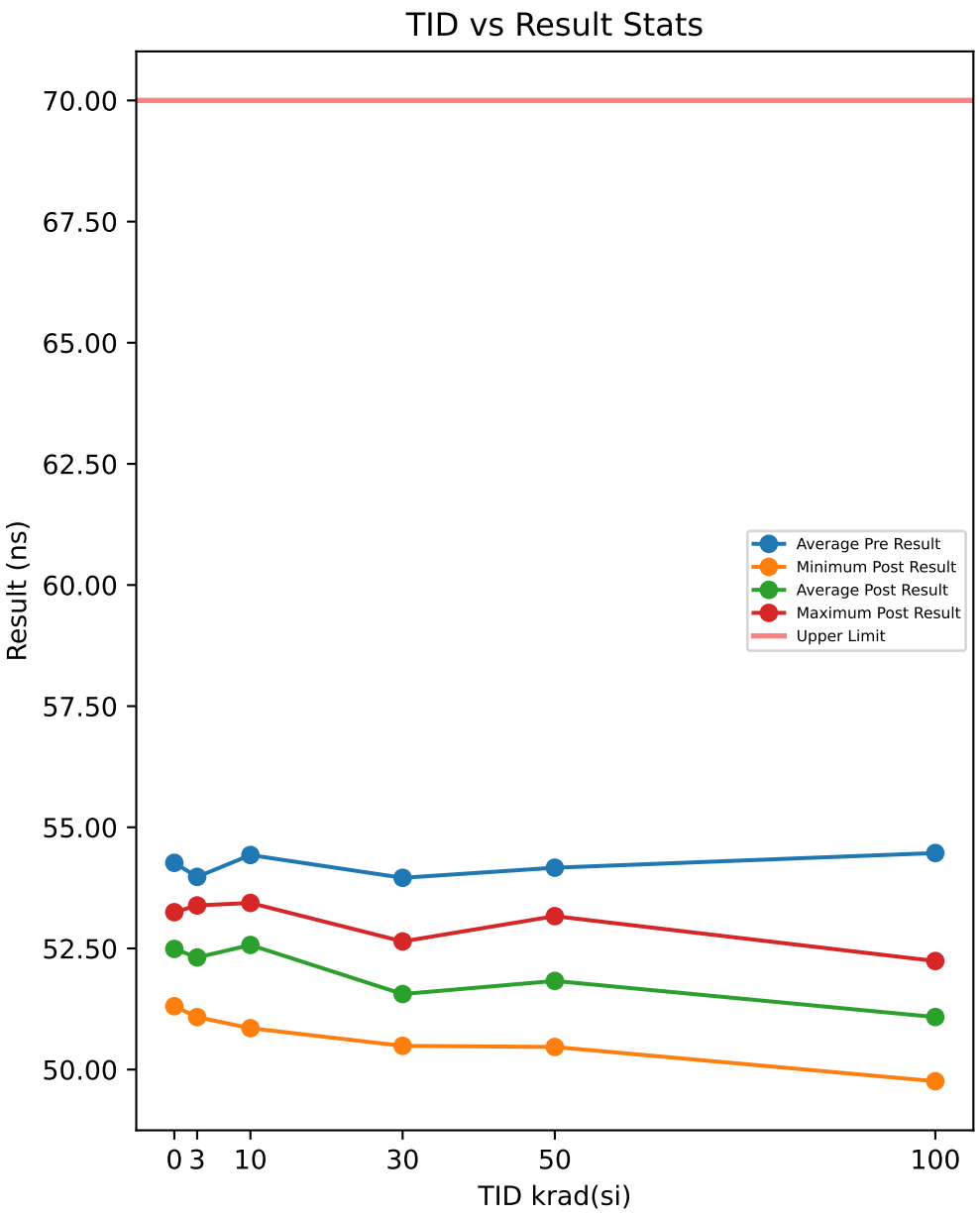
Test Results (Upper Limit = 165.0 (ns))

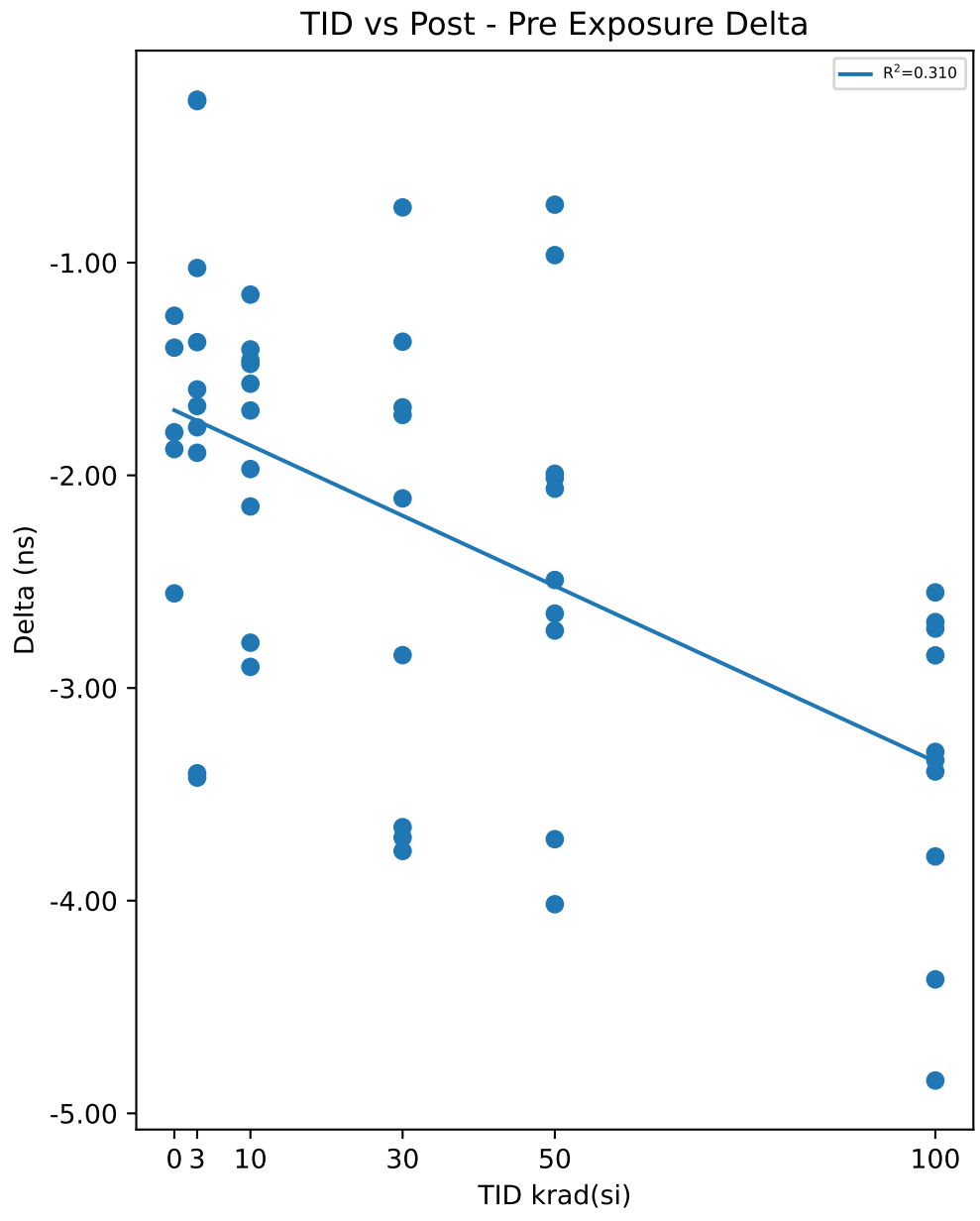
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	136.05	132.86	-3.1871
411	100	Unbiased	138.13	131.31	-6.8162
444	30	Unbiased	134.4	131.15	-3.2495
454	10	Unbiased	140.18	140.34	0.1538
491	3	Unbiased	137.46	137.93	0.4654
500	100	Unbiased	136.17	130.27	-5.9034
534	100	Biased	135.54	129.97	-5.5745
558	0	Correlation	136.82	137.14	0.321
563	100	Biased	136.34	132.98	-3.356
570	3	Unbiased	139.07	140.13	1.0695
614	10	Unbiased	135.08	134	-1.0805
675	3	Biased	134.11	132.98	-1.129
713	100	Unbiased	138.04	134.71	-3.3305
744	50	Biased	136.62	134.64	-1.9833
799	50	Biased	134.59	132.22	-2.3628
842	30	Unbiased	136.09	136.72	0.6303
889	3	Unbiased	133.63	133.93	0.3032
901	3	Biased	141.79	142.58	0.7863
930	50	Unbiased	135.88	134.38	-1.4972
968	100	Unbiased	143.35	133.95	-9.3994
976	100	Unbiased	139.62	135.41	-4.205
981	3	Biased	134.2	135.5	1.3035
1003	10	Biased	134.51	137.57	3.0593
1039	3	Biased	140.63	140.77	0.1377
1053	100	Biased	134.96	136.15	1.1934
1056	0	Correlation	131.23	131.15	-0.0825
1072	10	Biased	136	136.97	0.9709
1095	50	Unbiased	138.67	135.75	-2.919
1099	0	Correlation	136.2	137.64	1.4403
1113	3	Biased	140.71	140.71	0.0028
1142	10	Unbiased	136.95	135.15	-1.8055
1154	10	Biased	141.31	140.95	-0.3622
1215	50	Unbiased	134.22	132.31	-1.9102
1222	100	Biased	130.63	132.55	1.9228
1229	50	Unbiased	137.73	133.42	-4.308
1255	3	Unbiased	139.5	139.44	-0.0537
1331	30	Unbiased	141.04	140.08	-0.9609
1359	30	Biased	136.16	140.69	4.5333
1375	30	Unbiased	133.92	130.72	-3.2034
1398	30	Biased	135.6	136.8	1.2013
1411	50	Biased	138.67	131.84	-6.8288
1465	10	Unbiased	138.32	138.95	0.6289
1474	50	Biased	139.12	141.49	2.3723
1504	50	Biased	136.19	133.98	-2.2131
1540	100	Biased	137.41	130.36	-7.0515
1554	3	Unbiased	133.9	134.76	0.8643
1662	30	Biased	138.63	137.53	-1.1021
1679	10	Biased	131.39	130.23	-1.162
1697	10	Biased	140.17	140.77	0.602
1703	30	Biased	137.61	135.61	-2.0037
1704	10	Unbiased	141.39	139.61	-1.7789
1736	30	Biased	139.33	133.45	-5.8773
1737	0	Correlation	139.04	140.18	1.1334
1748	0	Correlation	135.66	135.89	0.2348

Test Statistics (ns)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	131.23	135.79	139.04	2.8558	131.15	136.4	140.18	3.3239	-0.0825	0.6094	1.4403	0.6456
3	133.63	137.5	141.79	3.2547	132.98	137.87	142.58	3.3493	-1.129	0.375	1.3035	0.69976
10	131.39	137.53	141.39	3.3225	130.23	137.45	140.95	3.4666	-1.8055	-0.07742	3.0593	1.4943
30	133.92	136.98	141.04	2.3593	130.72	135.86	140.69	3.5369	-5.8773	-1.1147	4.5333	3.0151
50	134.22	136.77	139.12	1.72	131.84	134.29	141.49	2.8141	-6.8288	-2.4837	2.3723	2.3121
100	130.63	137.02	143.35	3.2951	129.97	132.77	136.15	2.2529	-9.3994	-4.252	1.9228	3.5718

Device Test: 26.8 TIMING|EXT/OUT/8/8/0/0/5/500kHz//@T_OFF_EXTENDER





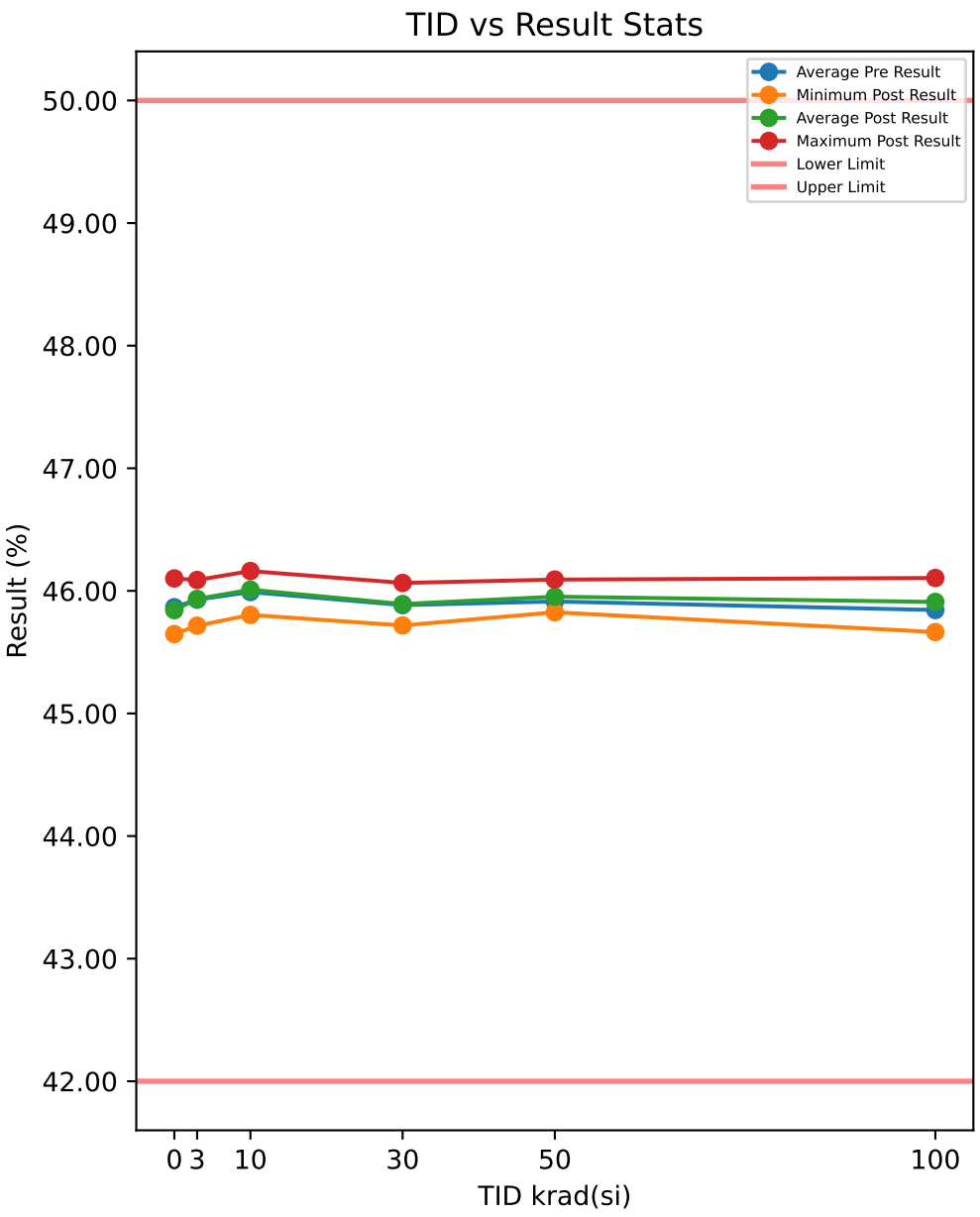
Test Results (Upper Limit = 70.0 (ns))

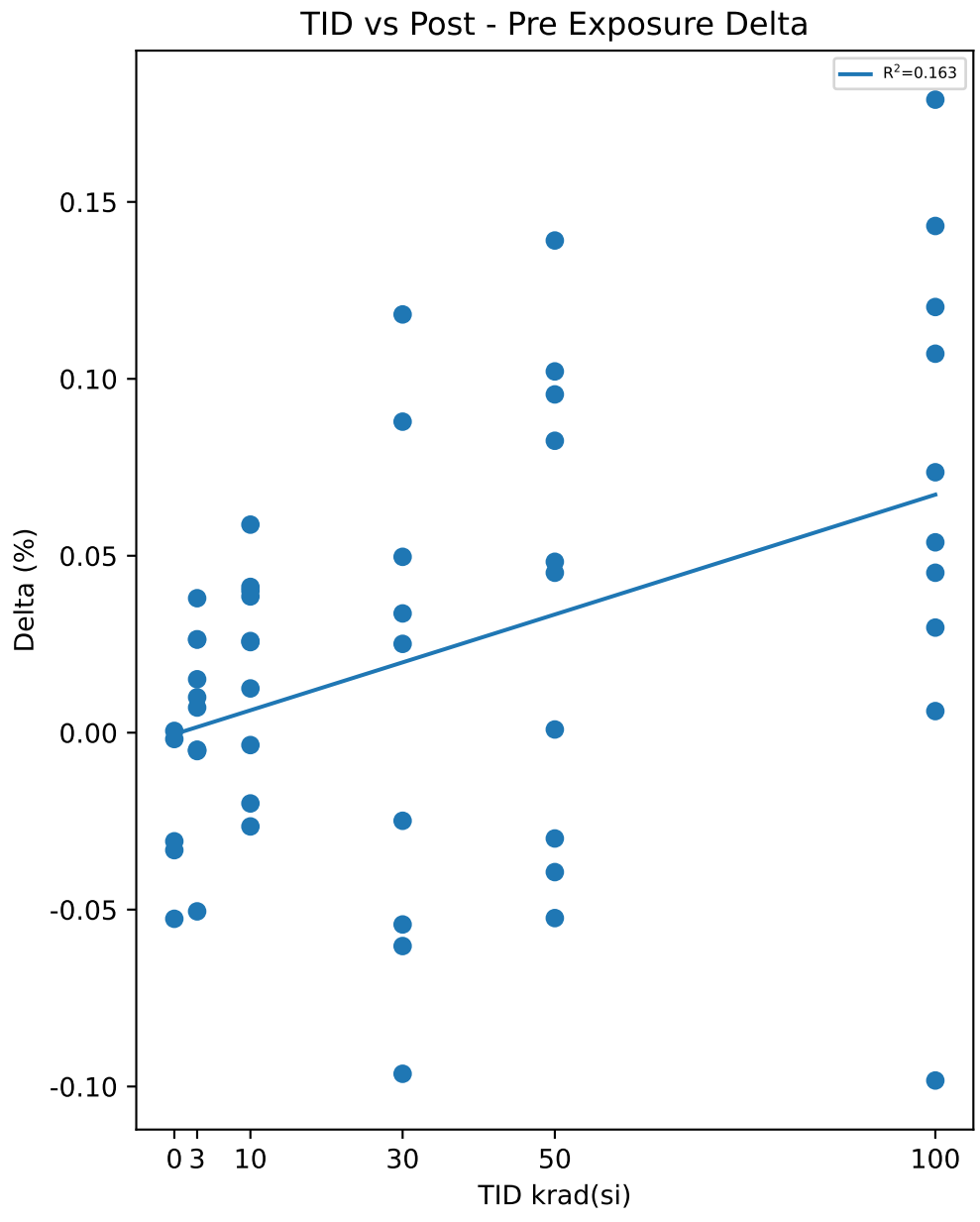
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	54.772	52.122	-2.65
411	100	Unbiased	54.604	49.759	-4.8456
444	30	Unbiased	54.382	50.616	-3.7662
454	10	Unbiased	54.577	53.169	-1.408
491	3	Unbiased	54.84	53.243	-1.596
500	100	Unbiased	54.791	52.24	-2.5506
534	100	Biased	54.833	52.112	-2.7207
558	0	Correlation	54.573	53.173	-1.3997
563	100	Biased	54.406	50.614	-3.7922
570	3	Unbiased	53.32	52.295	-1.0252
614	10	Unbiased	53.38	52.23	-1.1502
675	3	Biased	55.161	53.387	-1.7741
713	100	Unbiased	53.633	50.293	-3.3398
744	50	Biased	55.23	53.167	-2.0629
799	50	Biased	53.195	51.182	-2.0131
842	30	Unbiased	54.644	50.99	-3.6544
889	3	Unbiased	53.247	53.007	-0.2404
901	3	Biased	54.63	51.229	-3.4012
930	50	Unbiased	54.768	51.057	-3.7109
968	100	Unbiased	54.472	51.626	-2.8466
976	100	Unbiased	53.343	50.043	-3.3004
981	3	Biased	52.977	51.083	-1.8939
1003	10	Biased	54.97	53.401	-1.5692
1039	3	Biased	54.908	53.234	-1.6741
1053	100	Biased	54.882	51.489	-3.3927
1056	0	Correlation	54.497	53.248	-1.2497
1072	10	Biased	54.923	52.136	-2.787
1095	50	Unbiased	53.165	52.2	-0.9647
1099	0	Correlation	54.622	52.067	-2.5551
1113	3	Biased	53.069	52.836	-0.2336
1142	10	Unbiased	54.915	53.439	-1.4762
1154	10	Biased	54.847	53.152	-1.6952
1215	50	Unbiased	54.666	51.936	-2.7297
1222	100	Biased	54.889	50.519	-4.3702
1229	50	Unbiased	53.212	51.22	-1.9927
1255	3	Unbiased	54.803	51.381	-3.4215
1331	30	Unbiased	54.657	51.811	-2.8455
1359	30	Biased	54.466	52.358	-2.1085
1375	30	Unbiased	54.192	50.489	-3.703
1398	30	Biased	54.324	52.644	-1.6804
1411	50	Biased	54.93	52.438	-2.4921
1465	10	Unbiased	54.451	51.55	-2.9008
1474	50	Biased	53.235	52.508	-0.7274
1504	50	Biased	54.483	50.466	-4.0167
1540	100	Biased	54.834	52.144	-2.69
1554	3	Unbiased	52.81	51.437	-1.3737
1662	30	Biased	53.011	52.271	-0.7402
1679	10	Biased	54.611	53.152	-1.4589
1697	10	Biased	52.825	50.854	-1.9704
1703	30	Biased	52.749	51.032	-1.7163
1704	10	Unbiased	54.775	52.629	-2.1464
1736	30	Biased	53.19	51.818	-1.3717
1737	0	Correlation	53.185	51.308	-1.8767
1748	0	Correlation	54.452	52.654	-1.7978

Test Statistics (ns)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	53.185	54.266	54.622	0.60797	51.308	52.49	53.248	0.81294	-2.5551	-1.7758	-1.2497	0.50897
3	52.81	53.977	55.161	0.95852	51.083	52.313	53.387	0.93964	-3.4215	-1.6634	-0.2336	1.0925
10	52.825	54.428	54.97	0.73013	50.854	52.571	53.439	0.86751	-2.9008	-1.8562	-1.1502	0.59299
30	52.749	53.957	54.657	0.7529	50.489	51.559	52.644	0.7975	-3.7662	-2.3985	-0.7402	1.1302
50	53.165	54.166	55.23	0.8508	50.466	51.829	53.167	0.82315	-4.0167	-2.336	-0.7274	1.0413
100	53.343	54.469	54.889	0.54826	49.759	51.084	52.24	0.94172	-4.8456	-3.3849	-2.5506	0.75935

Device Test: 27.19 LEVEL|DCL/OUT/12/12/0/0/5/100kHz//@MAX_DCL_50





Test Results (Lower Limit = 42.0, Upper Limit = 50.0 (%))

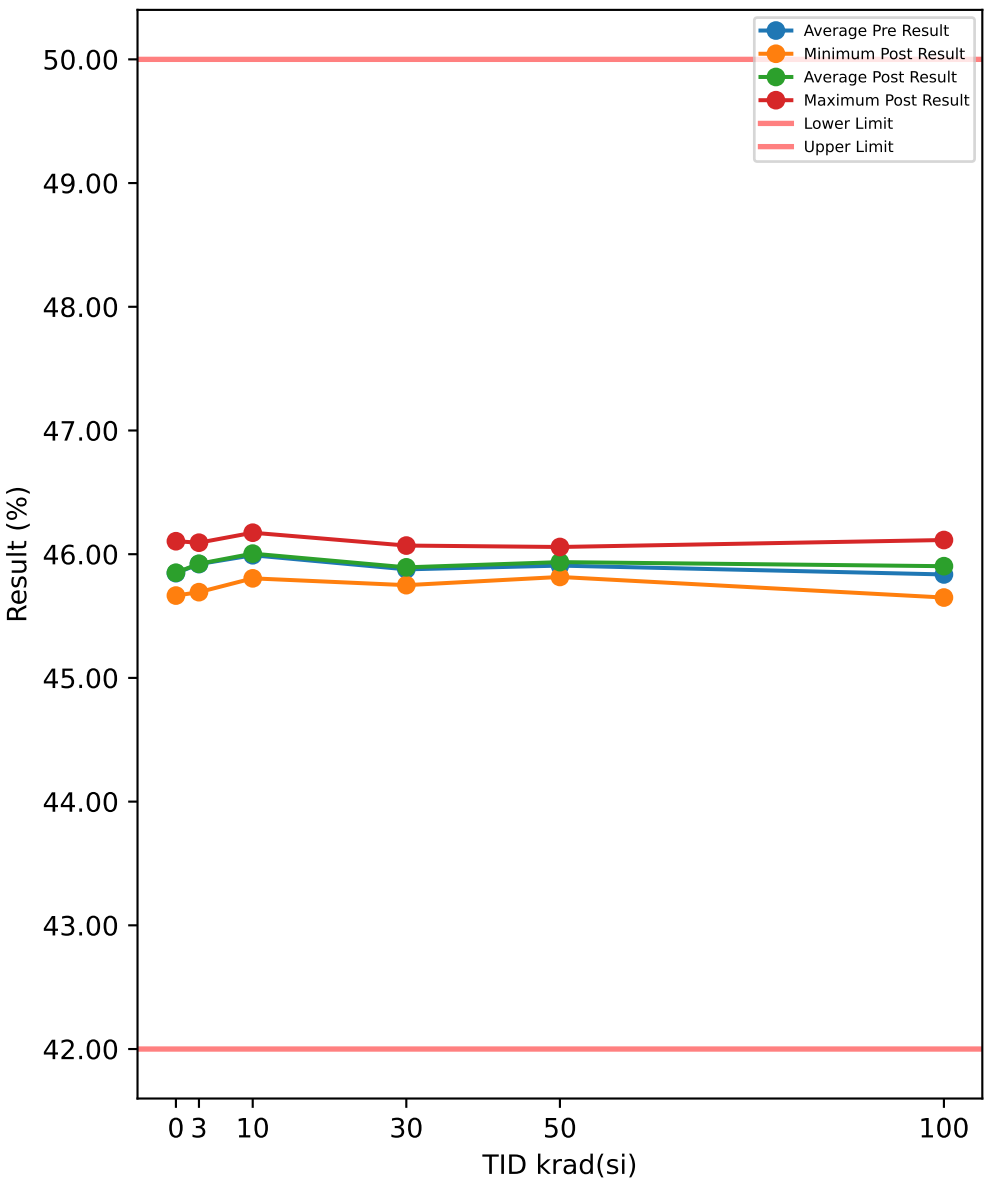
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	45.905	46.044	0.1391
411	100	Unbiased	46.075	46.105	0.0297
444	30	Unbiased	45.869	45.844	-0.0249
454	10	Unbiased	46.074	46.116	0.0412
491	3	Unbiased	46.094	46.089	-0.0052
500	100	Unbiased	45.723	45.73	0.0061
534	100	Biased	45.878	45.985	0.1071
558	0	Correlation	45.762	45.729	-0.0332
563	100	Biased	45.762	45.664	-0.0983
570	3	Unbiased	46	46.01	0.01
614	10	Unbiased	45.802	45.815	0.0125
675	3	Biased	45.78	45.795	0.0151
713	100	Unbiased	45.883	45.928	0.0452
744	50	Biased	46.009	45.969	-0.0394
799	50	Biased	45.989	45.99	0.0009
842	30	Unbiased	46.015	46.065	0.0497
889	3	Unbiased	45.955	45.95	-0.0048
901	3	Biased	45.944	45.971	0.0264
930	50	Unbiased	45.894	45.976	0.0825
968	100	Unbiased	45.881	45.954	0.0736
976	100	Unbiased	45.805	45.926	0.1203
981	3	Biased	45.689	45.716	0.0263
1003	10	Biased	46.16	46.134	-0.0265
1039	3	Biased	45.943	45.95	0.0071
1053	100	Biased	45.768	45.912	0.1432
1056	0	Correlation	45.921	45.868	-0.0526
1072	10	Biased	46.026	46.051	0.0256
1095	50	Unbiased	45.99	46.092	0.1021
1099	0	Correlation	45.87	45.868	-0.0018
1113	3	Biased	45.962	46	0.038
1142	10	Unbiased	45.807	45.804	-0.0035
1154	10	Biased	46.018	46.077	0.0588
1215	50	Unbiased	45.784	45.879	0.0956
1222	100	Biased	45.875	45.929	0.0538
1229	50	Unbiased	45.981	45.928	-0.0524
1255	3	Unbiased	46.029	45.978	-0.0505
1331	30	Unbiased	45.693	45.718	0.0251
1359	30	Biased	45.752	45.87	0.1182
1375	30	Unbiased	45.97	45.91	-0.0603
1398	30	Biased	46.139	46.043	-0.0964
1411	50	Biased	45.777	45.825	0.0483
1465	10	Unbiased	46.022	46.002	-0.02
1474	50	Biased	45.873	45.918	0.0452
1504	50	Biased	45.934	45.904	-0.0299
1540	100	Biased	45.786	45.965	0.1789
1554	3	Unbiased	45.886	45.881	-0.005
1662	30	Biased	45.687	45.775	0.0879
1679	10	Biased	45.845	45.885	0.0401
1697	10	Biased	46.136	46.161	0.0259
1703	30	Biased	45.998	45.944	-0.0542
1704	10	Unbiased	46.013	46.051	0.0385
1736	30	Biased	45.831	45.865	0.0337
1737	0	Correlation	46.101	46.101	0.0005
1748	0	Correlation	45.678	45.648	-0.0307

Test Statistics (%)

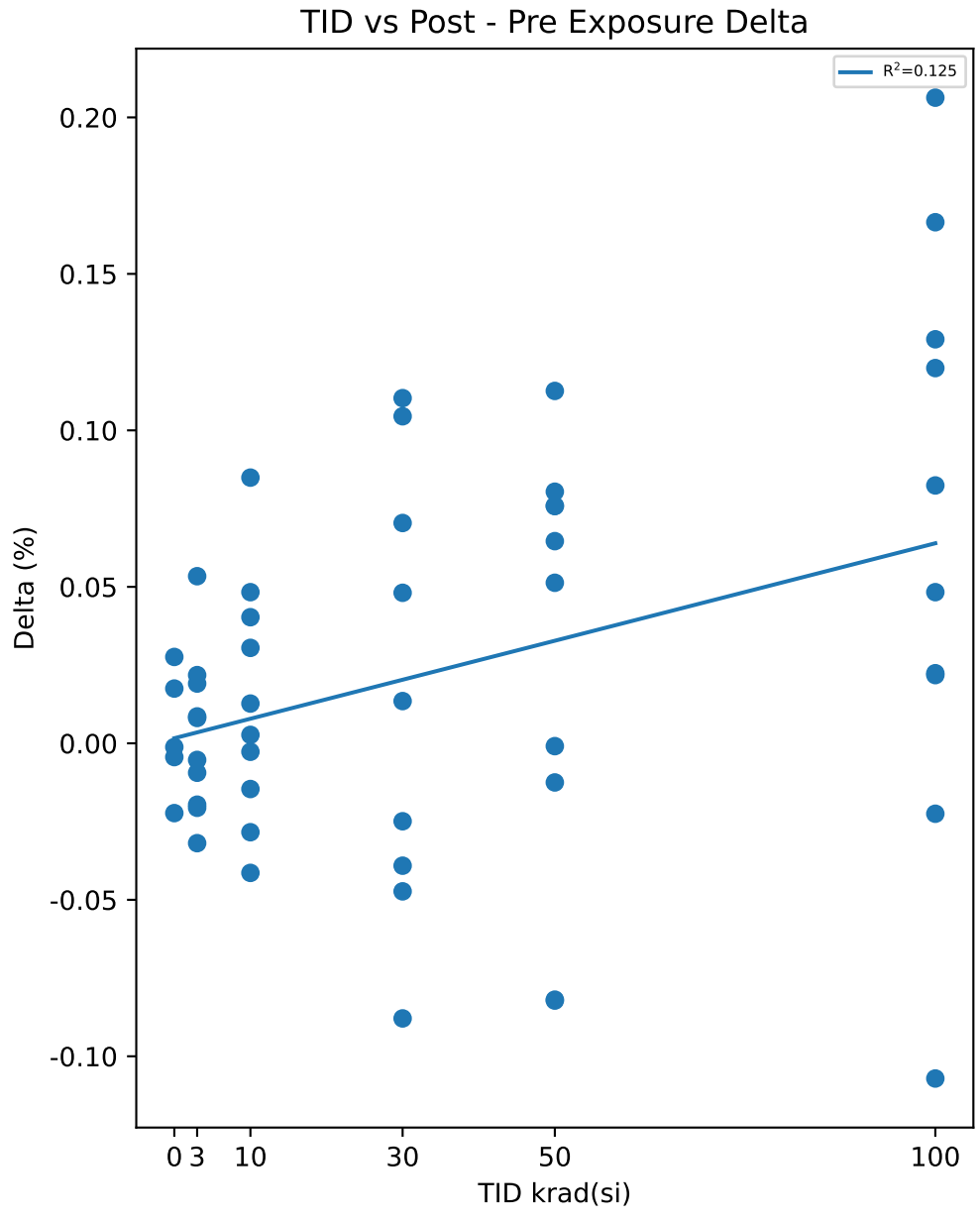
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	45.678	45.866	46.101	0.1613	45.648	45.843	46.101	0.17253	-0.0526	-0.02356	0.0005	0.022581
3	45.689	45.928	46.094	0.11825	45.716	45.934	46.089	0.10938	-0.0505	0.00574	0.038	0.024736
10	45.802	45.99	46.16	0.12934	45.804	46.01	46.161	0.13063	-0.0265	0.01926	0.0588	0.028152
30	45.687	45.884	46.139	0.15771	45.718	45.892	46.065	0.11365	-0.0964	0.0087556	0.1182	0.072224
50	45.777	45.913	46.009	0.083811	45.825	45.953	46.092	0.078661	-0.0524	0.0392	0.1391	0.066601
100	45.723	45.844	46.075	0.10022	45.664	45.91	46.105	0.12596	-0.0983	0.06596	0.1789	0.078799

Device Test: 27.20 LEVEL|DCL/OUT/14/14/0/0/5/100kHz//@MAX_DCL_50

TID vs Result Stats



TID vs Post - Pre Exposure Delta



Test Results (Lower Limit = 42.0, Upper Limit = 50.0 (%))

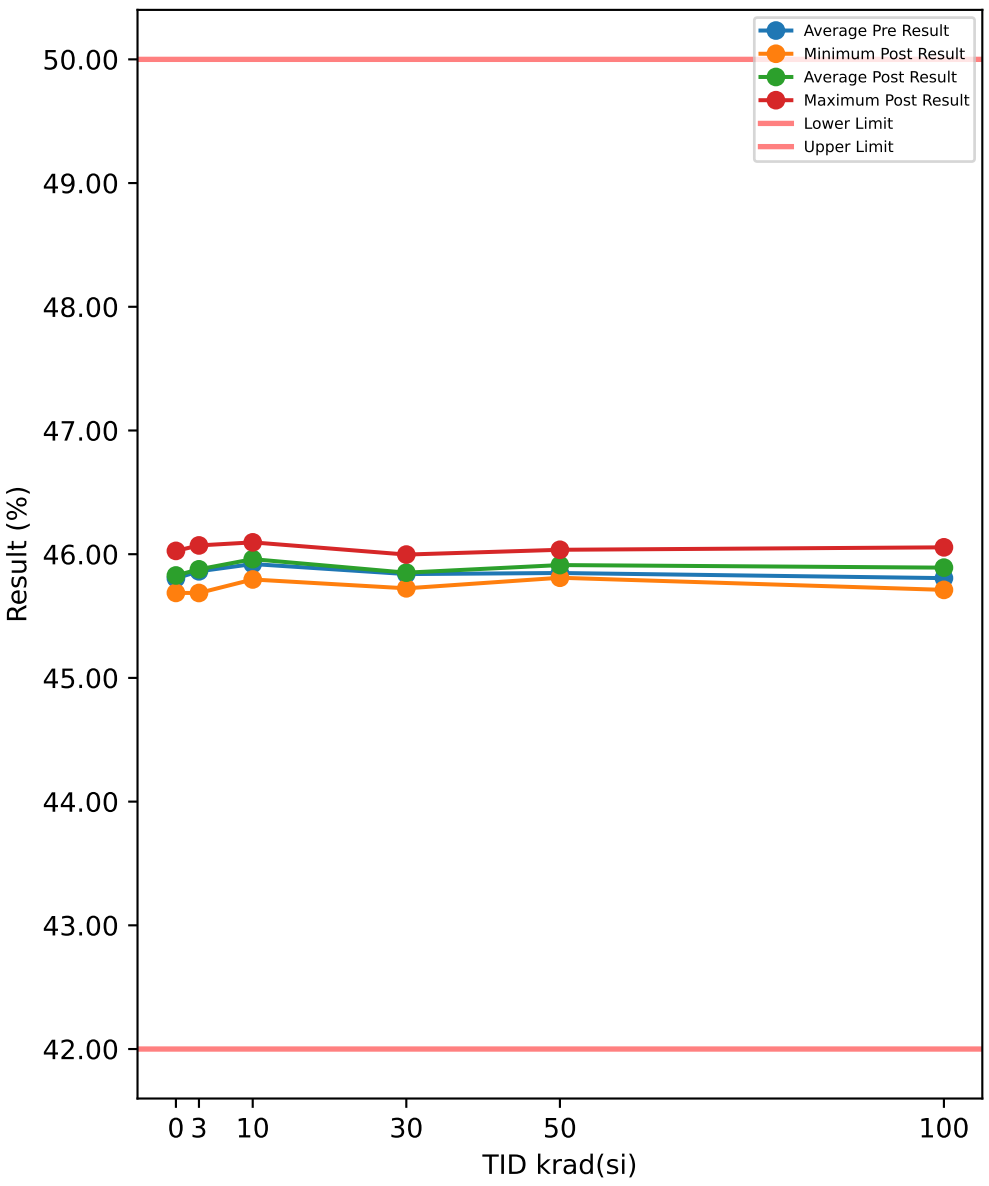
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	45.899	45.98	0.0804
411	100	Unbiased	46.066	46.115	0.0483
444	30	Unbiased	45.883	45.844	-0.0391
454	10	Unbiased	46.104	46.102	-0.0027
491	3	Unbiased	46.074	46.093	0.0191
500	100	Unbiased	45.731	45.709	-0.0225
534	100	Biased	45.871	45.954	0.0824
558	0	Correlation	45.728	45.724	-0.0044
563	100	Biased	45.757	45.65	-0.1071
570	3	Unbiased	46.019	45.999	-0.0196
614	10	Unbiased	45.81	45.813	0.0027
675	3	Biased	45.761	45.769	0.0086
713	100	Unbiased	45.893	45.915	0.0218
744	50	Biased	46.006	45.924	-0.0822
799	50	Biased	45.988	45.987	-0.0009
842	30	Unbiased	46.022	46.07	0.0481
889	3	Unbiased	45.925	45.904	-0.0206
901	3	Biased	45.953	45.975	0.0218
930	50	Unbiased	45.891	45.967	0.0758
968	100	Unbiased	45.897	45.92	0.0224
976	100	Unbiased	45.803	45.922	0.1199
981	3	Biased	45.685	45.693	0.0081
1003	10	Biased	46.141	46.127	-0.0146
1039	3	Biased	45.948	45.943	-0.0053
1053	100	Biased	45.739	45.906	0.1665
1056	0	Correlation	45.901	45.879	-0.0223
1072	10	Biased	46.03	46.002	-0.0284
1095	50	Unbiased	45.982	46.058	0.0759
1099	0	Correlation	45.85	45.877	0.0276
1113	3	Biased	45.95	46.004	0.0534
1142	10	Unbiased	45.792	45.805	0.0127
1154	10	Biased	46.077	46.125	0.0483
1215	50	Unbiased	45.779	45.891	0.1126
1222	100	Biased	45.832	45.961	0.1291
1229	50	Unbiased	45.986	45.904	-0.0819
1255	3	Unbiased	46.009	45.977	-0.0319
1331	30	Unbiased	45.679	45.75	0.0704
1359	30	Biased	45.762	45.866	0.1045
1375	30	Unbiased	45.924	45.899	-0.0249
1398	30	Biased	46.122	46.034	-0.0879
1411	50	Biased	45.752	45.816	0.0646
1465	10	Unbiased	46.011	45.97	-0.0414
1474	50	Biased	45.867	45.918	0.0513
1504	50	Biased	45.929	45.916	-0.0125
1540	100	Biased	45.774	45.98	0.2063
1554	3	Unbiased	45.877	45.868	-0.0094
1662	30	Biased	45.674	45.785	0.1103
1679	10	Biased	45.804	45.889	0.0849
1697	10	Biased	46.133	46.174	0.0403
1703	30	Biased	45.99	45.942	-0.0473
1704	10	Unbiased	46.01	46.04	0.0305
1736	30	Biased	45.841	45.855	0.0135
1737	0	Correlation	46.087	46.105	0.0175
1748	0	Correlation	45.667	45.666	-0.0012

Test Statistics (%)

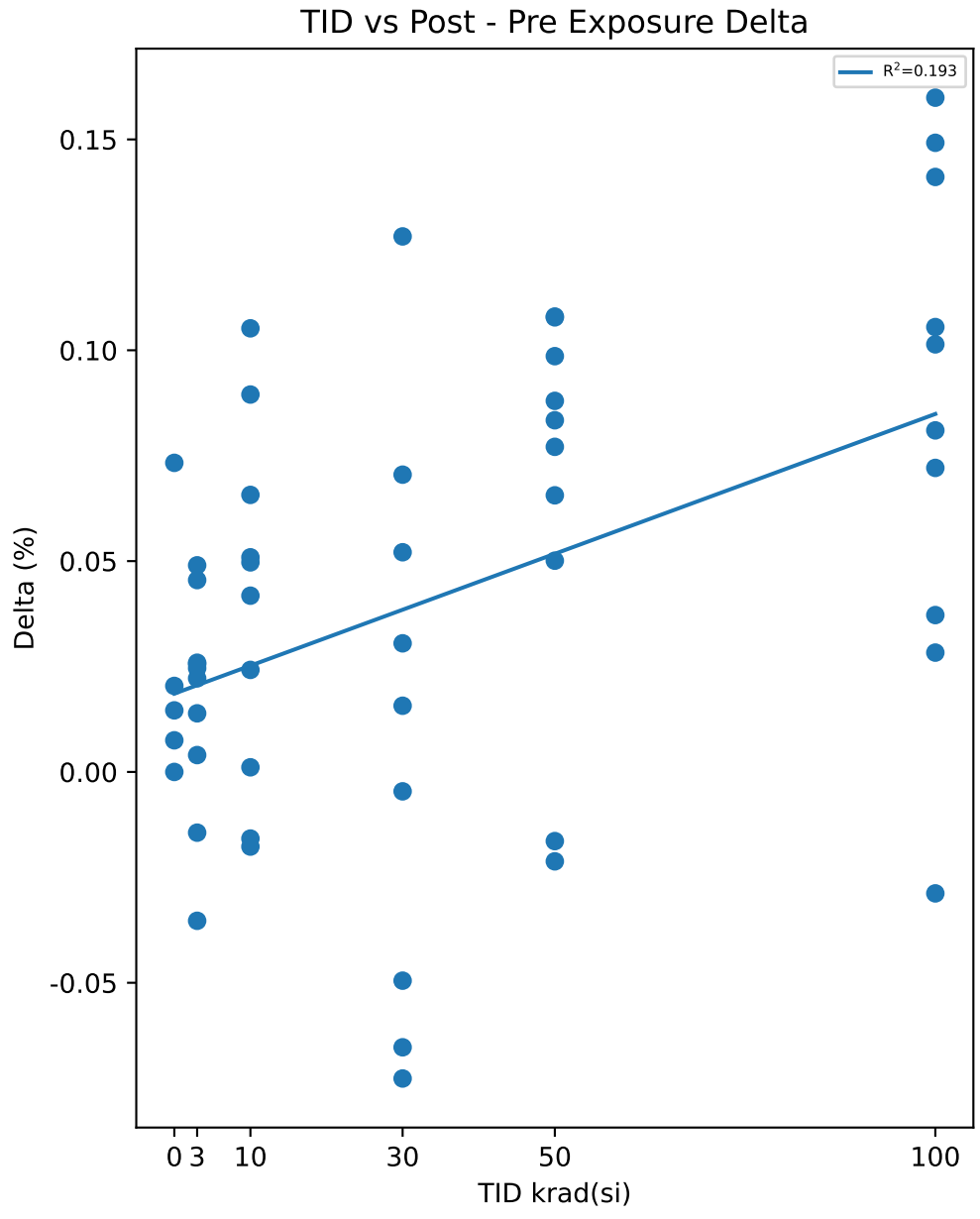
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	45.667	45.847	46.087	0.16373	45.666	45.85	46.105	0.17057	-0.0223	0.00344	0.0276	0.019538
3	45.685	45.92	46.074	0.11865	45.693	45.923	46.093	0.11885	-0.0319	0.00242	0.0534	0.0252
10	45.792	45.991	46.141	0.1384	45.805	46.005	46.174	0.13326	-0.0414	0.01323	0.0849	0.038376
30	45.674	45.877	46.122	0.15431	45.75	45.894	46.07	0.10634	-0.0879	0.0164	0.1103	0.070914
50	45.752	45.908	46.006	0.088976	45.816	45.936	46.058	0.065574	-0.0822	0.02831	0.1126	0.069171
100	45.731	45.836	46.066	0.10158	45.65	45.903	46.115	0.13305	-0.1071	0.06671	0.2063	0.09363

Device Test: 27.21 LEVEL|DCL/OUT/12/12/0/0/5/200kHz//@MAX_DCL_50

TID vs Result Stats



TID vs Post - Pre Exposure Delta



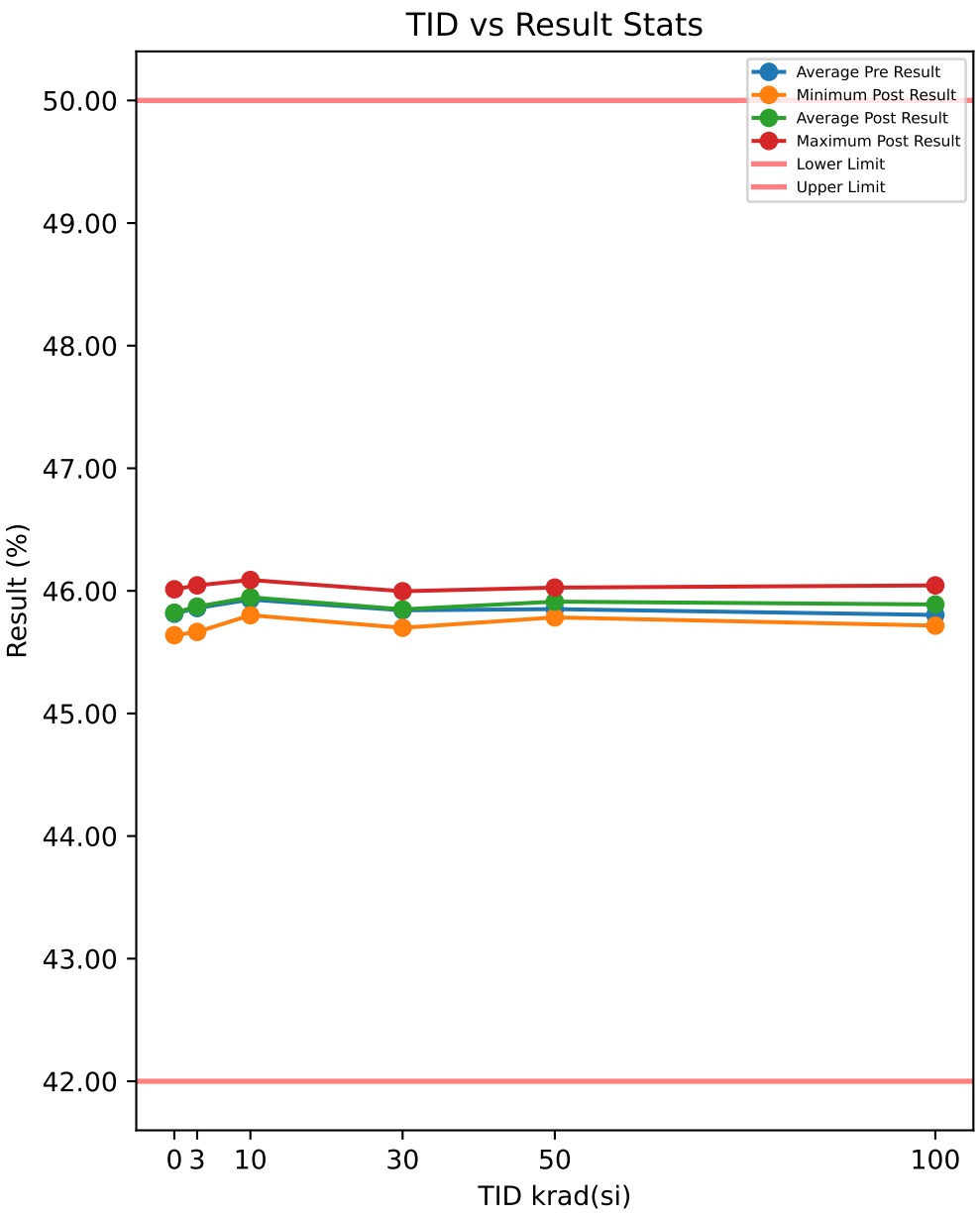
Test Results (Lower Limit = 42.0, Upper Limit = 50.0 (%))

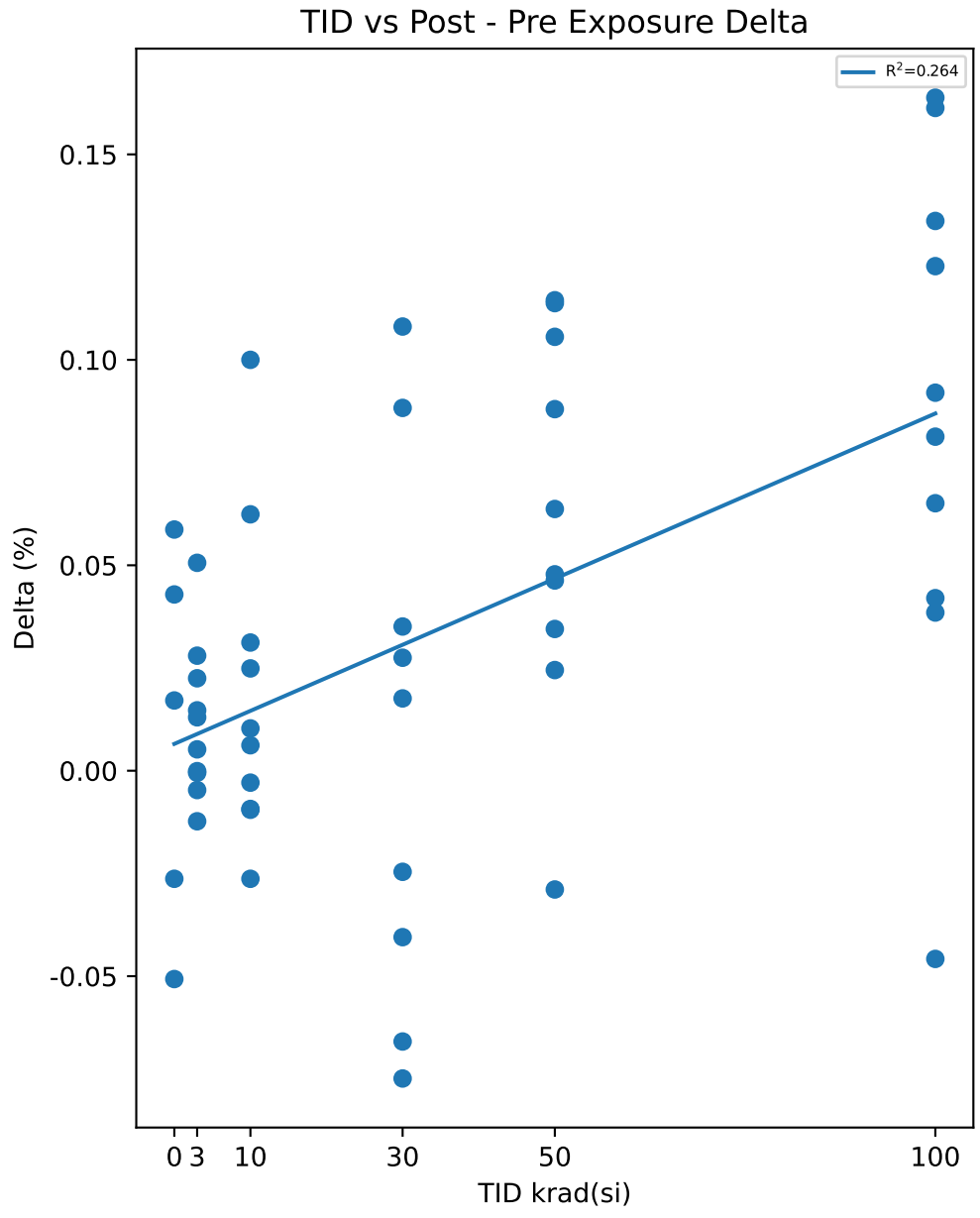
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	45.878	45.928	0.0501
411	100	Unbiased	46.018	46.056	0.0372
444	30	Unbiased	45.829	45.825	-0.0046
454	10	Unbiased	45.999	46.049	0.0497
491	3	Unbiased	46.049	46.071	0.0222
500	100	Unbiased	45.719	45.747	0.0283
534	100	Biased	45.84	45.946	0.1055
558	0	Correlation	45.725	45.725	0
563	100	Biased	45.74	45.712	-0.0288
570	3	Unbiased	45.92	45.944	0.0246
614	10	Unbiased	45.722	45.827	0.1052
675	3	Biased	45.77	45.784	0.0139
713	100	Unbiased	45.846	45.918	0.0721
744	50	Biased	45.947	45.93	-0.0164
799	50	Biased	45.921	46.009	0.088
842	30	Unbiased	45.967	45.997	0.0305
889	3	Unbiased	45.876	45.902	0.0256
901	3	Biased	45.851	45.877	0.0259
930	50	Unbiased	45.825	45.902	0.0771
968	100	Unbiased	45.823	45.924	0.1014
976	100	Unbiased	45.723	45.883	0.1599
981	3	Biased	45.638	45.687	0.049
1003	10	Biased	46.044	46.094	0.0509
1039	3	Biased	45.905	45.891	-0.0144
1053	100	Biased	45.757	45.838	0.081
1056	0	Correlation	45.817	45.89	0.0733
1072	10	Biased	45.977	46.019	0.0418
1095	50	Unbiased	45.928	46.036	0.1078
1099	0	Correlation	45.803	45.811	0.0075
1113	3	Biased	45.894	45.898	0.004
1142	10	Unbiased	45.813	45.796	-0.0177
1154	10	Biased	45.948	46.014	0.0657
1215	50	Unbiased	45.75	45.858	0.108
1222	100	Biased	45.83	45.979	0.1492
1229	50	Unbiased	45.849	45.932	0.0834
1255	3	Unbiased	45.926	45.891	-0.0353
1331	30	Unbiased	45.676	45.728	0.0521
1359	30	Biased	45.797	45.724	-0.0727
1375	30	Unbiased	45.958	45.893	-0.0653
1398	30	Biased	45.999	45.949	-0.0495
1411	50	Biased	45.711	45.81	0.0986
1465	10	Unbiased	45.946	45.947	0.0011
1474	50	Biased	45.795	45.861	0.0656
1504	50	Biased	45.876	45.854	-0.0212
1540	100	Biased	45.769	45.91	0.1411
1554	3	Unbiased	45.786	45.832	0.0455
1662	30	Biased	45.608	45.736	0.127
1679	10	Biased	45.837	45.861	0.0242
1697	10	Biased	46.006	46.096	0.0895
1703	30	Biased	45.925	45.941	0.0157
1704	10	Unbiased	45.913	45.897	-0.0158
1736	30	Biased	45.793	45.864	0.0705
1737	0	Correlation	46.006	46.027	0.0204
1748	0	Correlation	45.672	45.687	0.0146

Test Statistics (%)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	45.672	45.805	46.006	0.12704	45.687	45.828	46.027	0.13601	0	0.02316	0.0733	0.029054
3	45.638	45.862	46.049	0.1106	45.687	45.878	46.071	0.10029	-0.0353	0.0161	0.049	0.025747
10	45.722	45.92	46.044	0.10072	45.796	45.96	46.096	0.11022	-0.0177	0.03946	0.1052	0.041874
30	45.608	45.839	45.999	0.13558	45.724	45.851	45.997	0.1038	-0.0727	0.011522	0.127	0.066911
50	45.711	45.848	45.947	0.077948	45.81	45.912	46.036	0.070819	-0.0212	0.0641	0.108	0.047252
100	45.719	45.807	46.018	0.088954	45.712	45.891	46.056	0.10318	-0.0288	0.08469	0.1599	0.059814

Device Test: 27.22 LEVEL|DCL/OUT/14/14/0/0/5/200kHz//@MAX_DCL_50





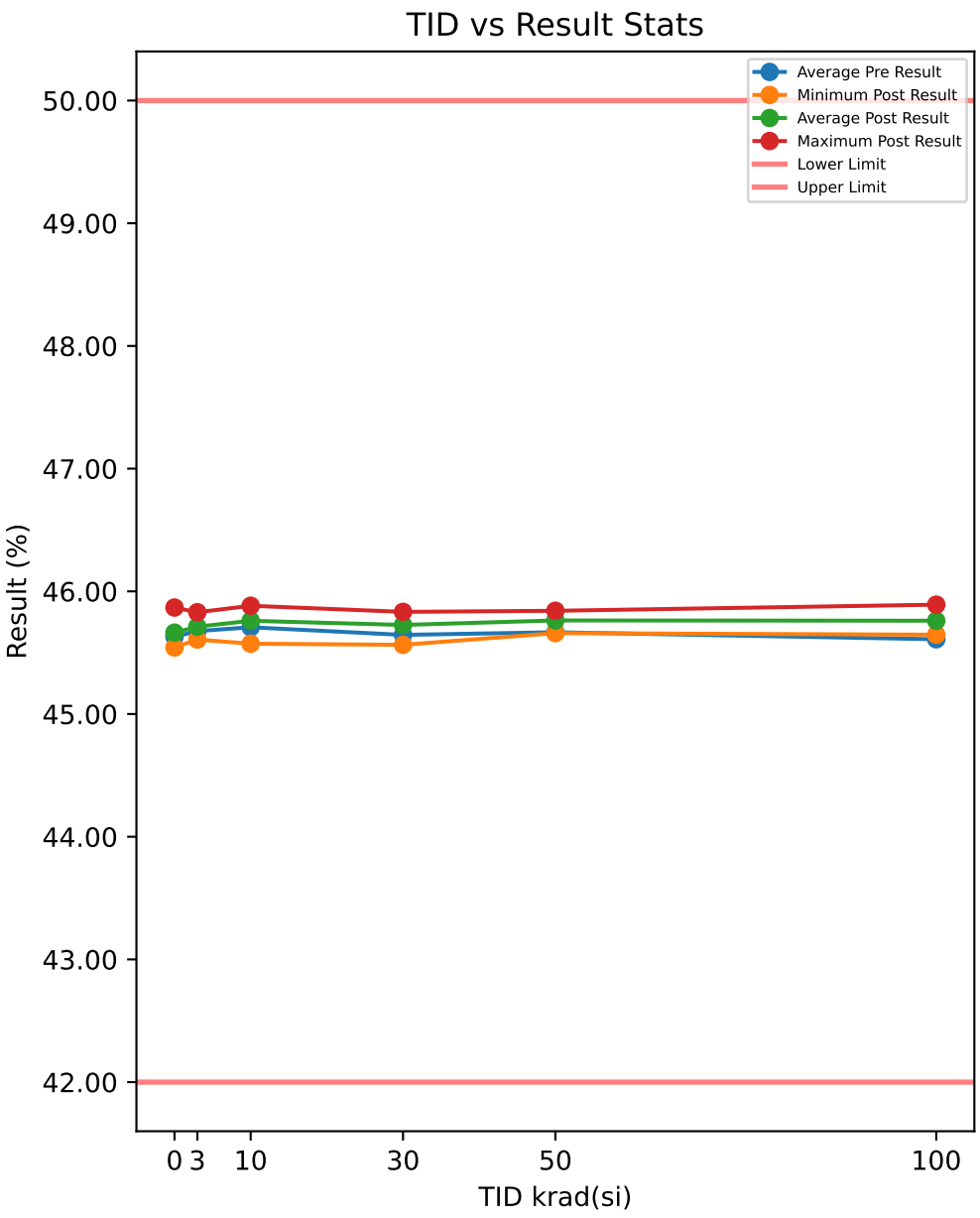
Test Results (Lower Limit = 42.0, Upper Limit = 50.0 (%))

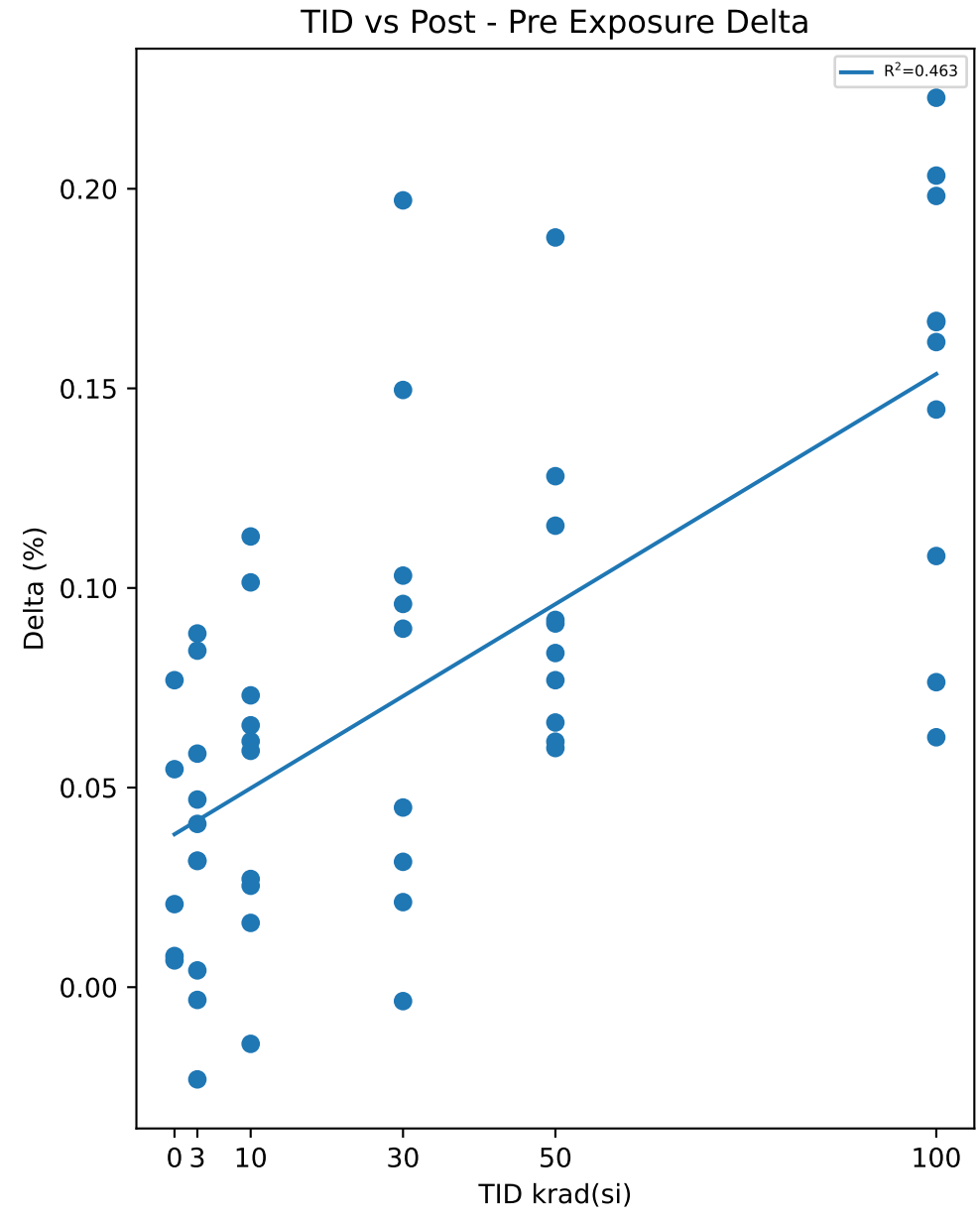
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	45.865	45.928	0.0637
411	100	Unbiased	46.006	46.044	0.0385
444	30	Unbiased	45.851	45.826	-0.0246
454	10	Unbiased	46.009	46.04	0.0312
491	3	Unbiased	46.039	46.045	0.0052
500	100	Unbiased	45.712	45.754	0.042
534	100	Biased	45.844	45.936	0.092
558	0	Correlation	45.73	45.704	-0.0263
563	100	Biased	45.762	45.717	-0.0458
570	3	Unbiased	45.922	45.937	0.0147
614	10	Unbiased	45.723	45.823	0.1
675	3	Biased	45.767	45.78	0.013
713	100	Unbiased	45.836	45.901	0.0651
744	50	Biased	45.944	45.979	0.0345
799	50	Biased	45.939	46.027	0.088
842	30	Unbiased	45.962	45.997	0.0351
889	3	Unbiased	45.882	45.904	0.0225
901	3	Biased	45.889	45.889	-0.0001
930	50	Unbiased	45.823	45.936	0.1138
968	100	Unbiased	45.817	45.94	0.1228
976	100	Unbiased	45.721	45.882	0.1613
981	3	Biased	45.637	45.665	0.028
1003	10	Biased	46.064	46.089	0.0249
1039	3	Biased	45.896	45.884	-0.0123
1053	100	Biased	45.743	45.825	0.0813
1056	0	Correlation	45.839	45.898	0.0587
1072	10	Biased	45.986	45.997	0.0103
1095	50	Unbiased	45.915	46.021	0.1056
1099	0	Correlation	45.814	45.856	0.0429
1113	3	Biased	45.894	45.889	-0.0047
1142	10	Unbiased	45.795	45.801	0.0062
1154	10	Biased	45.992	45.983	-0.0093
1215	50	Unbiased	45.748	45.863	0.1145
1222	100	Biased	45.842	45.976	0.1338
1229	50	Unbiased	45.866	45.89	0.0245
1255	3	Unbiased	45.886	45.886	-0.0005
1331	30	Unbiased	45.692	45.71	0.0176
1359	30	Biased	45.781	45.74	-0.0405
1375	30	Unbiased	45.953	45.887	-0.0659
1398	30	Biased	46.023	45.948	-0.0749
1411	50	Biased	45.736	45.784	0.0478
1465	10	Unbiased	45.95	45.941	-0.0095
1474	50	Biased	45.798	45.844	0.0463
1504	50	Biased	45.878	45.849	-0.0289
1540	100	Biased	45.753	45.916	0.1638
1554	3	Unbiased	45.783	45.834	0.0506
1662	30	Biased	45.61	45.699	0.0883
1679	10	Biased	45.831	45.828	-0.0029
1697	10	Biased	46.018	46.08	0.0624
1703	30	Biased	45.917	45.945	0.0275
1704	10	Unbiased	45.919	45.892	-0.0263
1736	30	Biased	45.783	45.891	0.1081
1737	0	Correlation	45.995	46.013	0.0171
1748	0	Correlation	45.689	45.638	-0.0507

Test Statistics (%)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	45.689	45.814	45.995	0.11852	45.638	45.822	46.013	0.15078	-0.0507	0.00834	0.0587	0.046078
3	45.637	45.86	46.039	0.10792	45.665	45.871	46.045	0.099282	-0.0123	0.01164	0.0506	0.018504
10	45.723	45.929	46.064	0.11066	45.801	45.947	46.089	0.10748	-0.0263	0.0187	0.1	0.038023
30	45.61	45.841	46.023	0.13625	45.699	45.849	45.997	0.11092	-0.0749	0.0078556	0.1081	0.064637
50	45.736	45.851	45.944	0.073857	45.784	45.912	46.027	0.080446	-0.0289	0.06098	0.1145	0.045804
100	45.712	45.804	46.006	0.087143	45.717	45.889	46.044	0.0997	-0.0458	0.08548	0.1638	0.064479

Device Test: 27.23 LEVEL|DCL/OUT/12/12/0/0/5/500kHz//@MAX_DCL_50





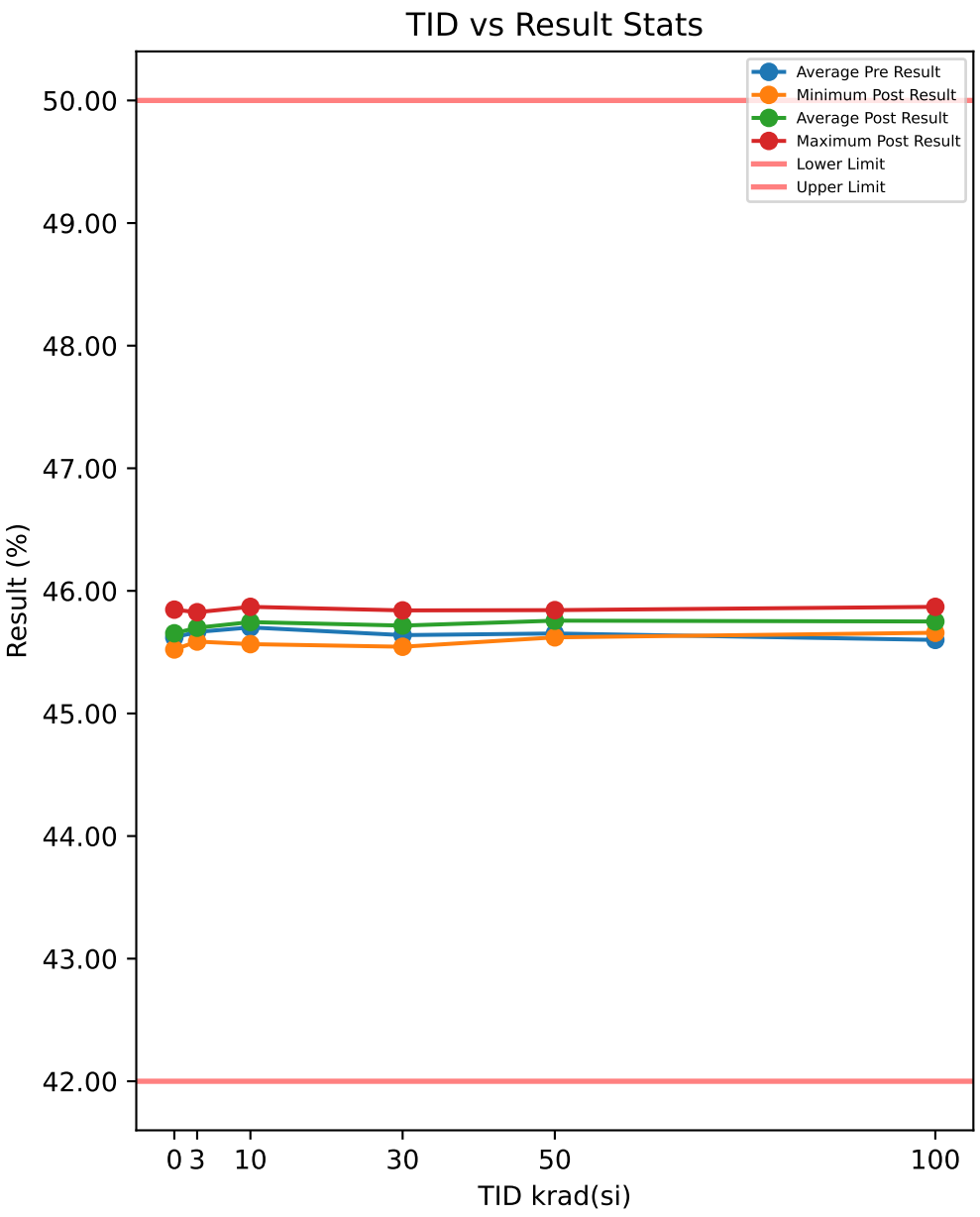
Test Results (Lower Limit = 42.0, Upper Limit = 50.0 (%))

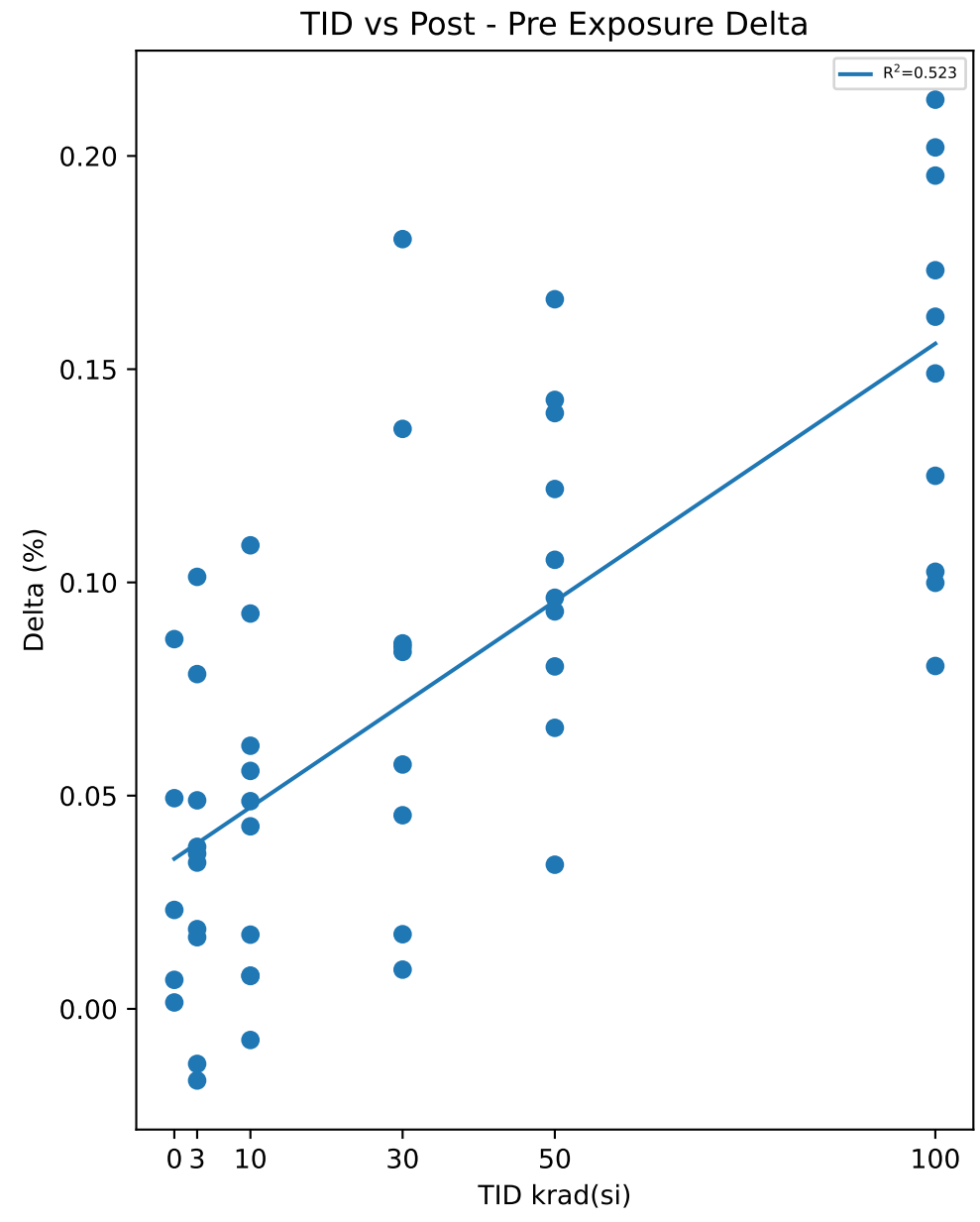
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	45.693	45.784	0.0911
411	100	Unbiased	45.747	45.891	0.1447
444	30	Unbiased	45.68	45.725	0.045
454	10	Unbiased	45.754	45.779	0.0254
491	3	Unbiased	45.798	45.829	0.0317
500	100	Unbiased	45.57	45.647	0.0764
534	100	Biased	45.622	45.73	0.108
558	0	Correlation	45.534	45.542	0.0078
563	100	Biased	45.623	45.685	0.0626
570	3	Unbiased	45.688	45.773	0.0843
614	10	Unbiased	45.558	45.624	0.0656
675	3	Biased	45.607	45.639	0.0316
713	100	Unbiased	45.684	45.851	0.1666
744	50	Biased	45.718	45.78	0.0615
799	50	Biased	45.714	45.842	0.128
842	30	Unbiased	45.743	45.833	0.0898
889	3	Unbiased	45.737	45.741	0.0042
901	3	Biased	45.609	45.656	0.047
930	50	Unbiased	45.626	45.814	0.1878
968	100	Unbiased	45.549	45.711	0.1616
976	100	Unbiased	45.53	45.753	0.2228
981	3	Biased	45.548	45.607	0.0585
1003	10	Biased	45.819	45.878	0.0592
1039	3	Biased	45.696	45.693	-0.0032
1053	100	Biased	45.596	45.763	0.1669
1056	0	Correlation	45.678	45.685	0.0067
1072	10	Biased	45.809	45.883	0.0731
1095	50	Unbiased	45.722	45.788	0.0663
1099	0	Correlation	45.593	45.669	0.0769
1113	3	Biased	45.697	45.674	-0.0231
1142	10	Unbiased	45.587	45.573	-0.0142
1154	10	Biased	45.719	45.78	0.0616
1215	50	Unbiased	45.645	45.729	0.0837
1222	100	Biased	45.661	45.859	0.1982
1229	50	Unbiased	45.7	45.815	0.1156
1255	3	Unbiased	45.73	45.771	0.0409
1331	30	Unbiased	45.45	45.6	0.1496
1359	30	Biased	45.543	45.564	0.0213
1375	30	Unbiased	45.764	45.795	0.0314
1398	30	Biased	45.805	45.802	-0.0035
1411	50	Biased	45.583	45.66	0.0769
1465	10	Unbiased	45.706	45.819	0.1129
1474	50	Biased	45.6	45.66	0.0599
1504	50	Biased	45.666	45.758	0.092
1540	100	Biased	45.513	45.716	0.2033
1554	3	Unbiased	45.649	45.738	0.0886
1662	30	Biased	45.492	45.595	0.1031
1679	10	Biased	45.67	45.686	0.0161
1697	10	Biased	45.775	45.876	0.1014
1703	30	Biased	45.715	45.811	0.096
1704	10	Unbiased	45.675	45.702	0.0271
1736	30	Biased	45.613	45.81	0.1971
1737	0	Correlation	45.813	45.868	0.0546
1748	0	Correlation	45.532	45.552	0.0208

Test Statistics (%)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	45.532	45.63	45.813	0.11854	45.542	45.663	45.868	0.13173	0.0067	0.03336	0.0769	0.031099
3	45.548	45.676	45.798	0.073553	45.607	45.712	45.829	0.069781	-0.0231	0.03605	0.0886	0.036254
10	45.558	45.707	45.819	0.087395	45.573	45.76	45.883	0.11002	-0.0142	0.05282	0.1129	0.039321
30	45.45	45.645	45.805	0.12664	45.564	45.726	45.833	0.10926	-0.0035	0.081089	0.1971	0.064649
50	45.583	45.667	45.722	0.050912	45.66	45.763	45.842	0.062757	0.0599	0.09628	0.1878	0.03911
100	45.513	45.61	45.747	0.073427	45.647	45.761	45.891	0.081113	0.0626	0.15111	0.2228	0.053743

Device Test: 27.24 LEVEL|DCL/OUT/14/14/0/0/5/500kHz//@MAX_DCL_50





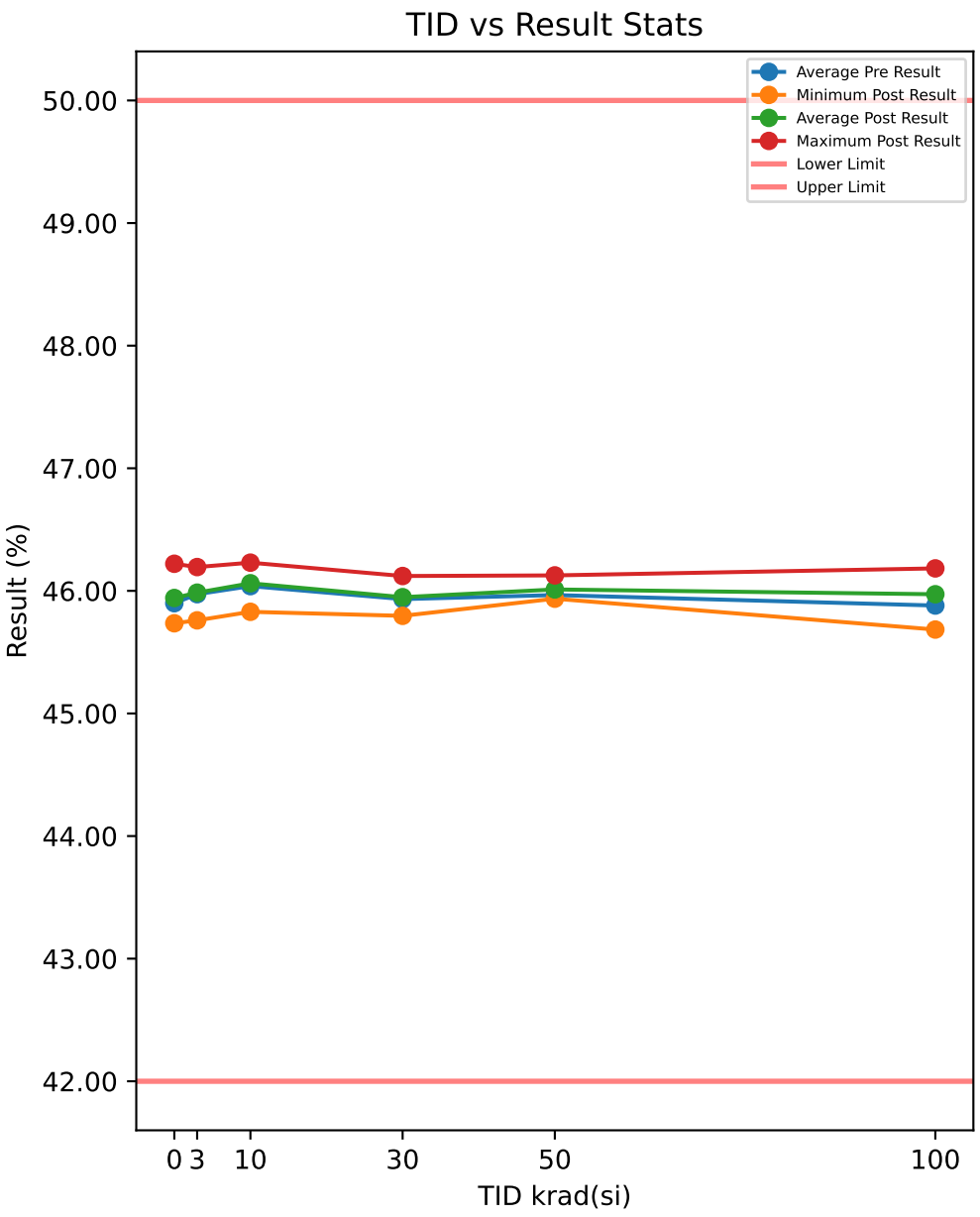
Test Results (Lower Limit = 42.0, Upper Limit = 50.0 (%))

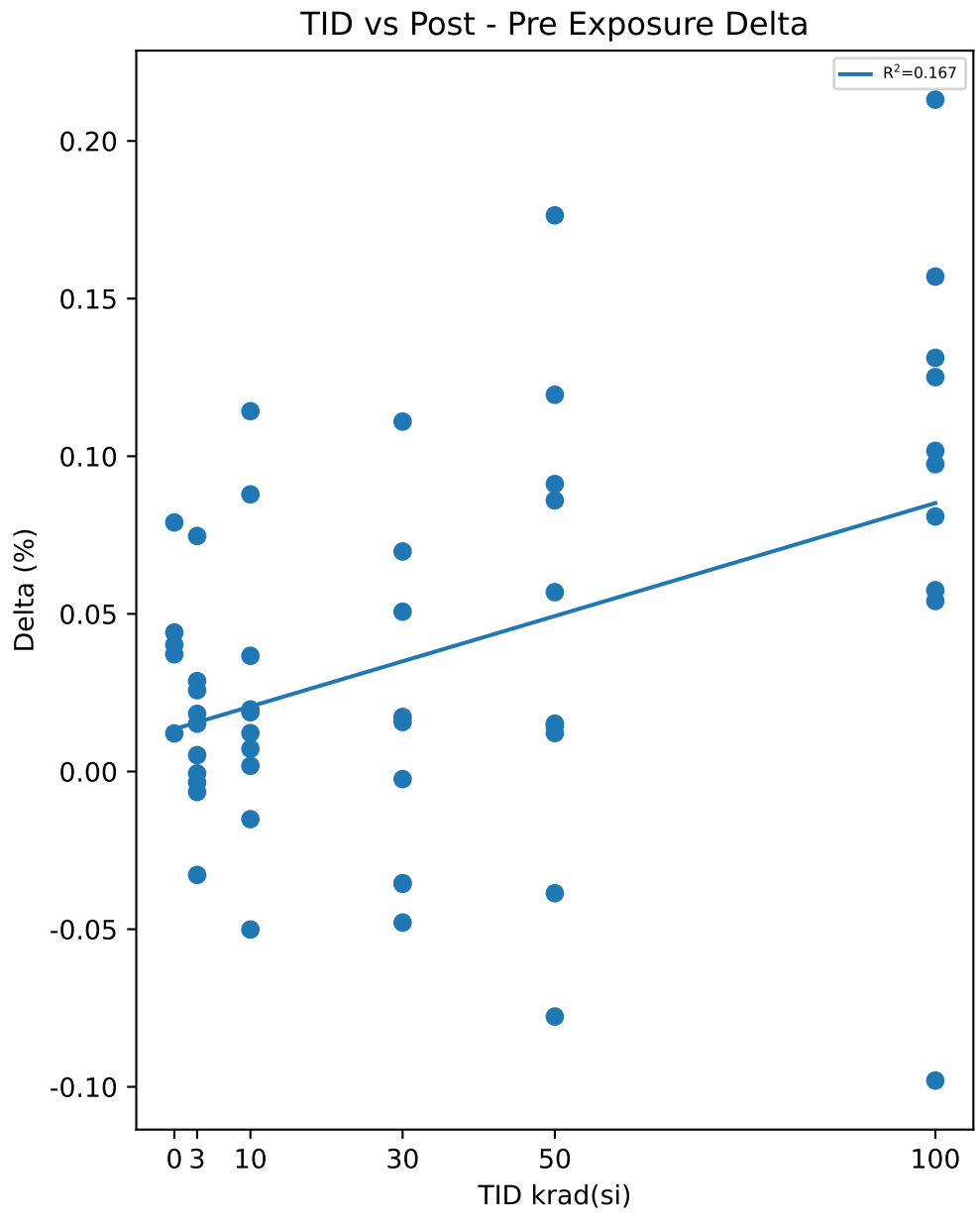
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	45.676	45.798	0.1219
411	100	Unbiased	45.745	45.87	0.125
444	30	Unbiased	45.673	45.73	0.0573
454	10	Unbiased	45.74	45.789	0.0487
491	3	Unbiased	45.791	45.826	0.0343
500	100	Unbiased	45.558	45.658	0.0999
534	100	Biased	45.619	45.722	0.1025
558	0	Correlation	45.529	45.553	0.0232
563	100	Biased	45.605	45.685	0.0804
570	3	Unbiased	45.68	45.781	0.1013
614	10	Unbiased	45.554	45.61	0.0558
675	3	Biased	45.608	45.625	0.0168
713	100	Unbiased	45.678	45.827	0.149
744	50	Biased	45.707	45.773	0.0659
799	50	Biased	45.703	45.843	0.1397
842	30	Unbiased	45.757	45.84	0.0837
889	3	Unbiased	45.72	45.739	0.0187
901	3	Biased	45.583	45.632	0.0489
930	50	Unbiased	45.616	45.782	0.1664
968	100	Unbiased	45.542	45.716	0.1732
976	100	Unbiased	45.522	45.735	0.2132
981	3	Biased	45.548	45.587	0.038
1003	10	Biased	45.825	45.868	0.0428
1039	3	Biased	45.669	45.656	-0.0129
1053	100	Biased	45.577	45.739	0.1623
1056	0	Correlation	45.675	45.682	0.0068
1072	10	Biased	45.808	45.87	0.0617
1095	50	Unbiased	45.704	45.81	0.1053
1099	0	Correlation	45.578	45.665	0.0867
1113	3	Biased	45.679	45.662	-0.0168
1142	10	Unbiased	45.573	45.565	-0.0073
1154	10	Biased	45.719	45.727	0.0078
1215	50	Unbiased	45.623	45.716	0.0932
1222	100	Biased	45.648	45.844	0.1954
1229	50	Unbiased	45.684	45.827	0.1428
1255	3	Unbiased	45.732	45.768	0.0364
1331	30	Unbiased	45.445	45.581	0.136
1359	30	Biased	45.535	45.544	0.0092
1375	30	Unbiased	45.771	45.789	0.0175
1398	30	Biased	45.771	45.816	0.0454
1411	50	Biased	45.587	45.621	0.0338
1465	10	Unbiased	45.696	45.789	0.0927
1474	50	Biased	45.564	45.644	0.0803
1504	50	Biased	45.659	45.755	0.0964
1540	100	Biased	45.505	45.707	0.202
1554	3	Unbiased	45.637	45.716	0.0785
1662	30	Biased	45.487	45.573	0.0857
1679	10	Biased	45.668	45.685	0.0174
1697	10	Biased	45.758	45.867	0.1087
1703	30	Biased	45.706	45.791	0.0849
1704	10	Unbiased	45.675	45.683	0.0077
1736	30	Biased	45.606	45.786	0.1805
1737	0	Correlation	45.797	45.847	0.0494
1748	0	Correlation	45.52	45.522	0.0015

Test Statistics (%)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	45.52	45.62	45.797	0.11654	45.522	45.654	45.847	0.12822	0.0015	0.03352	0.0867	0.035093
3	45.548	45.665	45.791	0.073209	45.587	45.699	45.826	0.07836	-0.0168	0.03432	0.1013	0.03661
10	45.554	45.702	45.825	0.089219	45.565	45.745	45.87	0.10929	-0.0073	0.0436	0.1087	0.038005
30	45.445	45.639	45.771	0.12603	45.544	45.717	45.84	0.11725	0.0092	0.0778	0.1805	0.054651
50	45.564	45.652	45.707	0.051855	45.621	45.757	45.843	0.075017	0.0338	0.10457	0.1664	0.039593
100	45.505	45.6	45.745	0.074884	45.658	45.75	45.87	0.071377	0.0804	0.15029	0.2132	0.046767

Device Test: 27.25 LEVEL|WRST_MAX/OUT/12/12/0/0/5/100kHz//@MAX_DCL_50





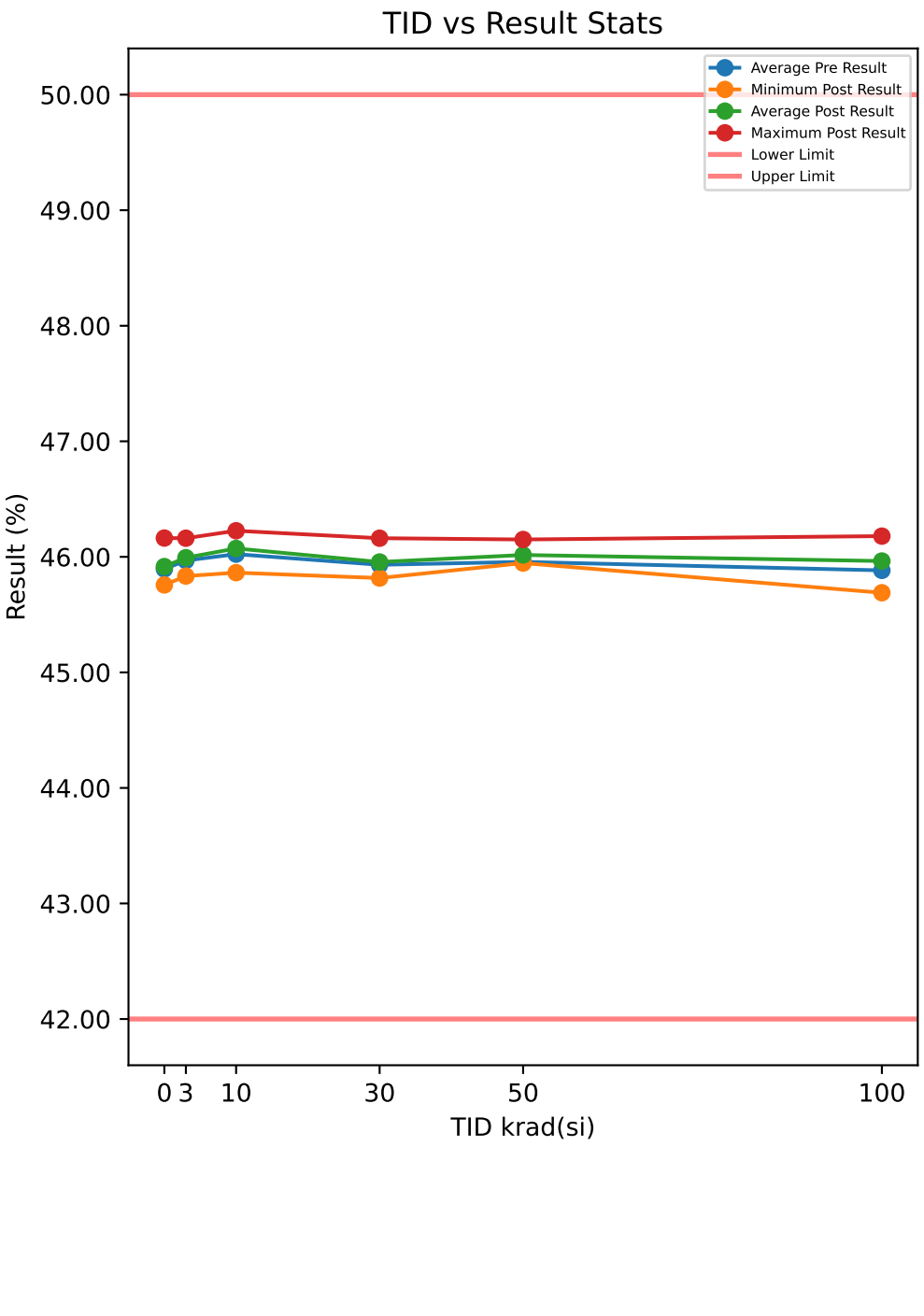
Test Results (Lower Limit = 42.0, Upper Limit = 50.0 (%))

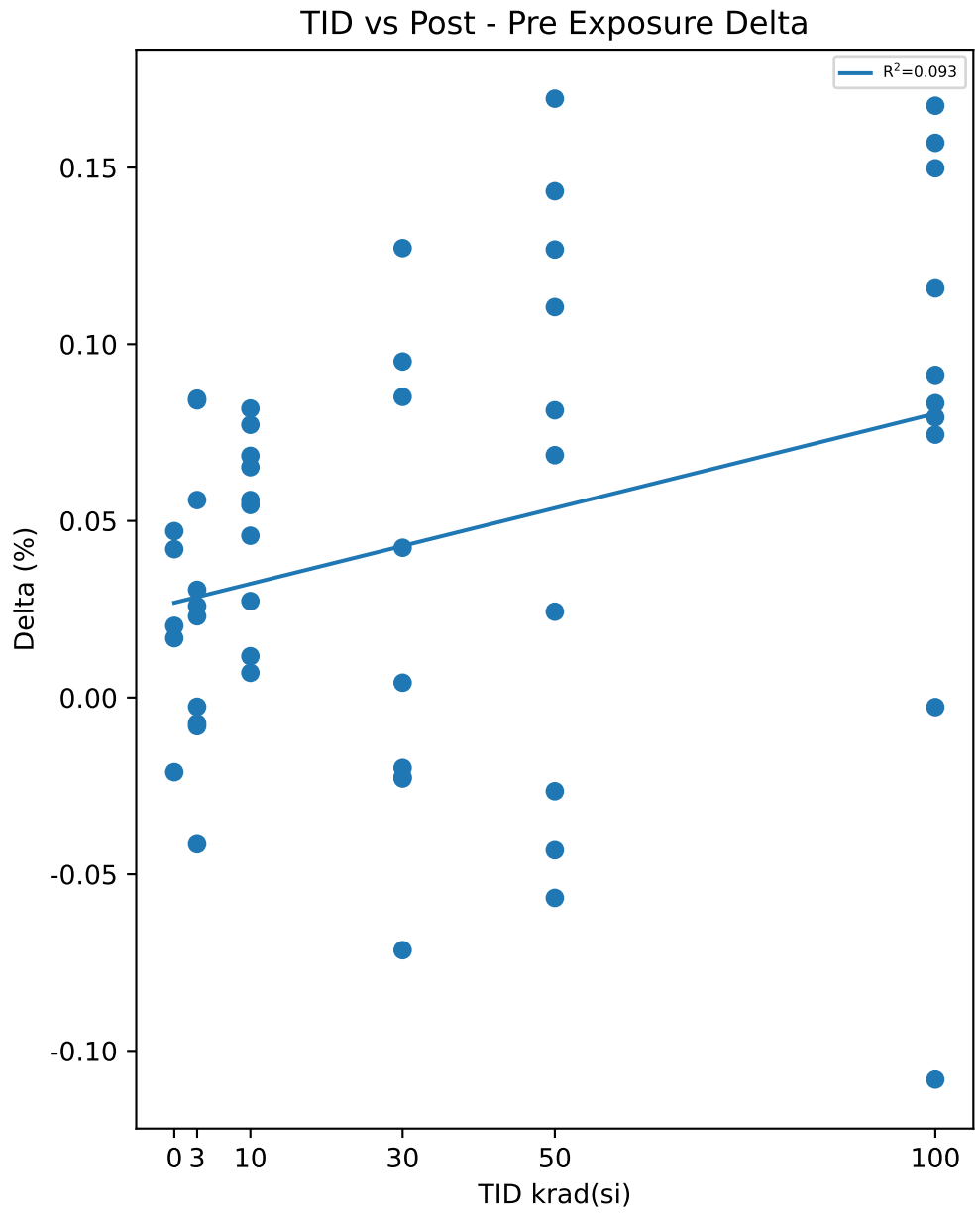
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	45.936	46.028	0.0912
411	100	Unbiased	46.129	46.183	0.0541
444	30	Unbiased	45.935	45.899	-0.0354
454	10	Unbiased	46.145	46.147	0.0018
491	3	Unbiased	46.165	46.194	0.0287
500	100	Unbiased	45.762	45.82	0.0575
534	100	Biased	45.929	46.031	0.1017
558	0	Correlation	45.807	45.847	0.0402
563	100	Biased	45.782	45.684	-0.098
570	3	Unbiased	46.074	46.073	-0.0006
614	10	Unbiased	45.869	45.881	0.0122
675	3	Biased	45.843	45.849	0.0052
713	100	Unbiased	45.913	45.994	0.0809
744	50	Biased	46.049	46.011	-0.0386
799	50	Biased	46.054	46.069	0.0145
842	30	Unbiased	46.094	46.111	0.0173
889	3	Unbiased	45.957	45.983	0.0258
901	3	Biased	45.996	46.071	0.0747
930	50	Unbiased	45.935	45.992	0.0569
968	100	Unbiased	45.895	46.026	0.1312
976	100	Unbiased	45.841	46.054	0.2131
981	3	Biased	45.741	45.759	0.0183
1003	10	Biased	46.206	46.226	0.0197
1039	3	Biased	45.984	46	0.0152
1053	100	Biased	45.819	45.917	0.0975
1056	0	Correlation	45.931	45.968	0.0372
1072	10	Biased	46.081	46.1	0.0188
1095	50	Unbiased	46.04	46.126	0.086
1099	0	Correlation	45.894	45.938	0.0441
1113	3	Biased	46.018	46.011	-0.0065
1142	10	Unbiased	45.844	45.829	-0.0151
1154	10	Biased	46.079	46.194	0.1143
1215	50	Unbiased	45.834	46.01	0.1764
1222	100	Biased	45.88	46.005	0.1251
1229	50	Unbiased	45.995	46.008	0.0122
1255	3	Unbiased	46.046	46.013	-0.0328
1331	30	Unbiased	45.727	45.796	0.0698
1359	30	Biased	45.822	45.873	0.0507
1375	30	Unbiased	45.985	46.001	0.0157
1398	30	Biased	46.169	46.121	-0.0479
1411	50	Biased	45.816	45.936	0.1195
1465	10	Unbiased	46.049	45.999	-0.0501
1474	50	Biased	45.982	45.997	0.0152
1504	50	Biased	46.016	45.938	-0.0777
1540	100	Biased	45.852	46.009	0.157
1554	3	Unbiased	45.904	45.901	-0.0035
1662	30	Biased	45.722	45.833	0.111
1679	10	Biased	45.91	45.917	0.0072
1697	10	Biased	46.142	46.23	0.0879
1703	30	Biased	46.038	46.003	-0.0356
1704	10	Unbiased	46.059	46.096	0.0367
1736	30	Biased	45.902	45.899	-0.0024
1737	0	Correlation	46.142	46.221	0.079
1748	0	Correlation	45.724	45.736	0.0121

Test Statistics (%)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	45.724	45.899	46.142	0.15758	45.736	45.942	46.221	0.18034	0.0121	0.04252	0.079	0.023939
3	45.741	45.973	46.165	0.12054	45.759	45.985	46.194	0.12347	-0.0328	0.01245	0.0747	0.028369
10	45.844	46.039	46.206	0.12365	45.829	46.062	46.23	0.147	-0.0501	0.02334	0.1143	0.047579
30	45.722	45.933	46.169	0.15639	45.796	45.949	46.121	0.11669	-0.0479	0.015911	0.111	0.053446
50	45.816	45.966	46.054	0.085372	45.936	46.011	46.126	0.056124	-0.0777	0.04556	0.1764	0.075798
100	45.762	45.88	46.129	0.10286	45.684	45.972	46.183	0.13735	-0.098	0.09201	0.2131	0.081987

Device Test: 27.26 LEVEL|WRST_MAX/OUT/14/14/0/0/5/100kHz//@MAX_DCL_50





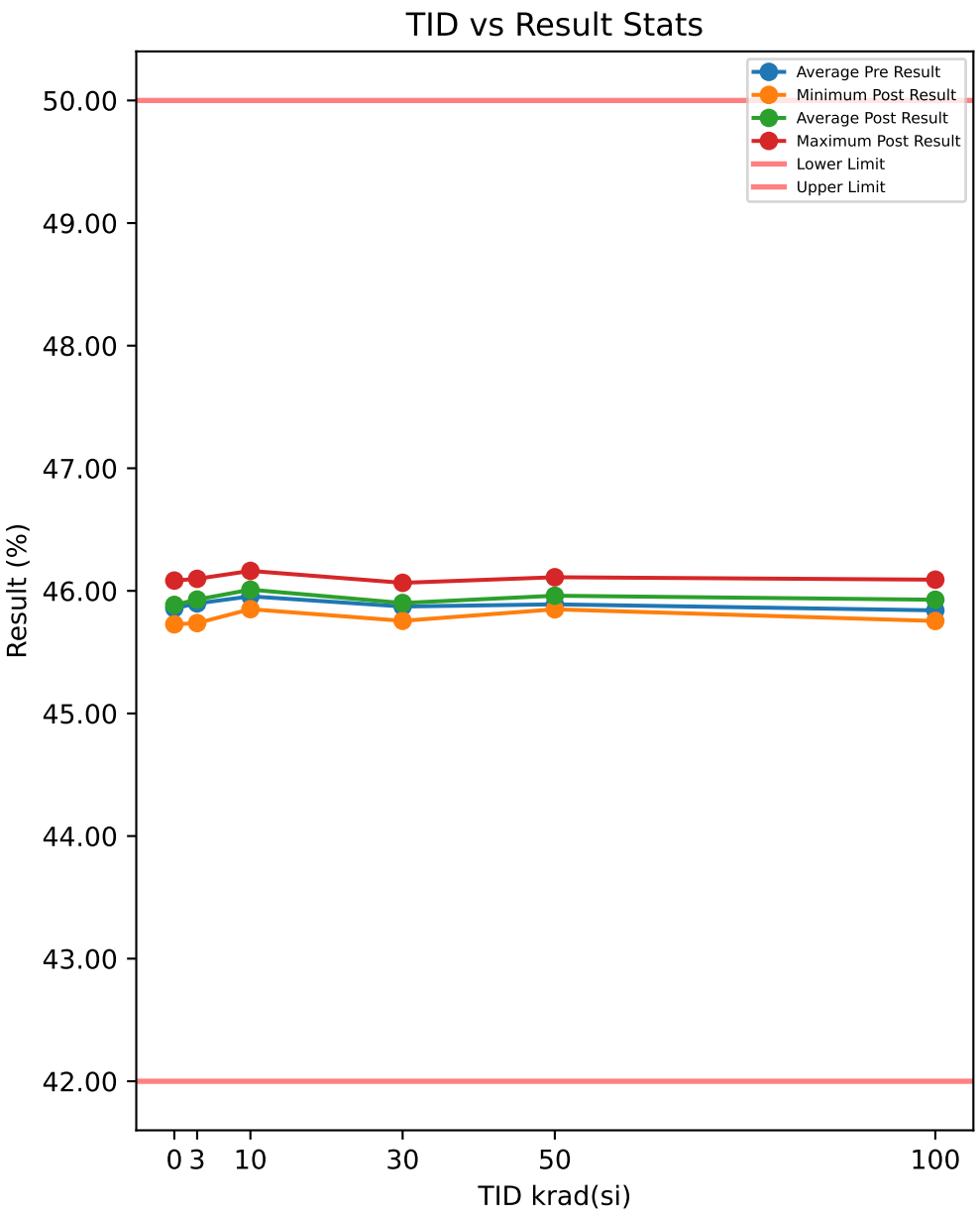
Test Results (Lower Limit = 42.0, Upper Limit = 50.0 (%))

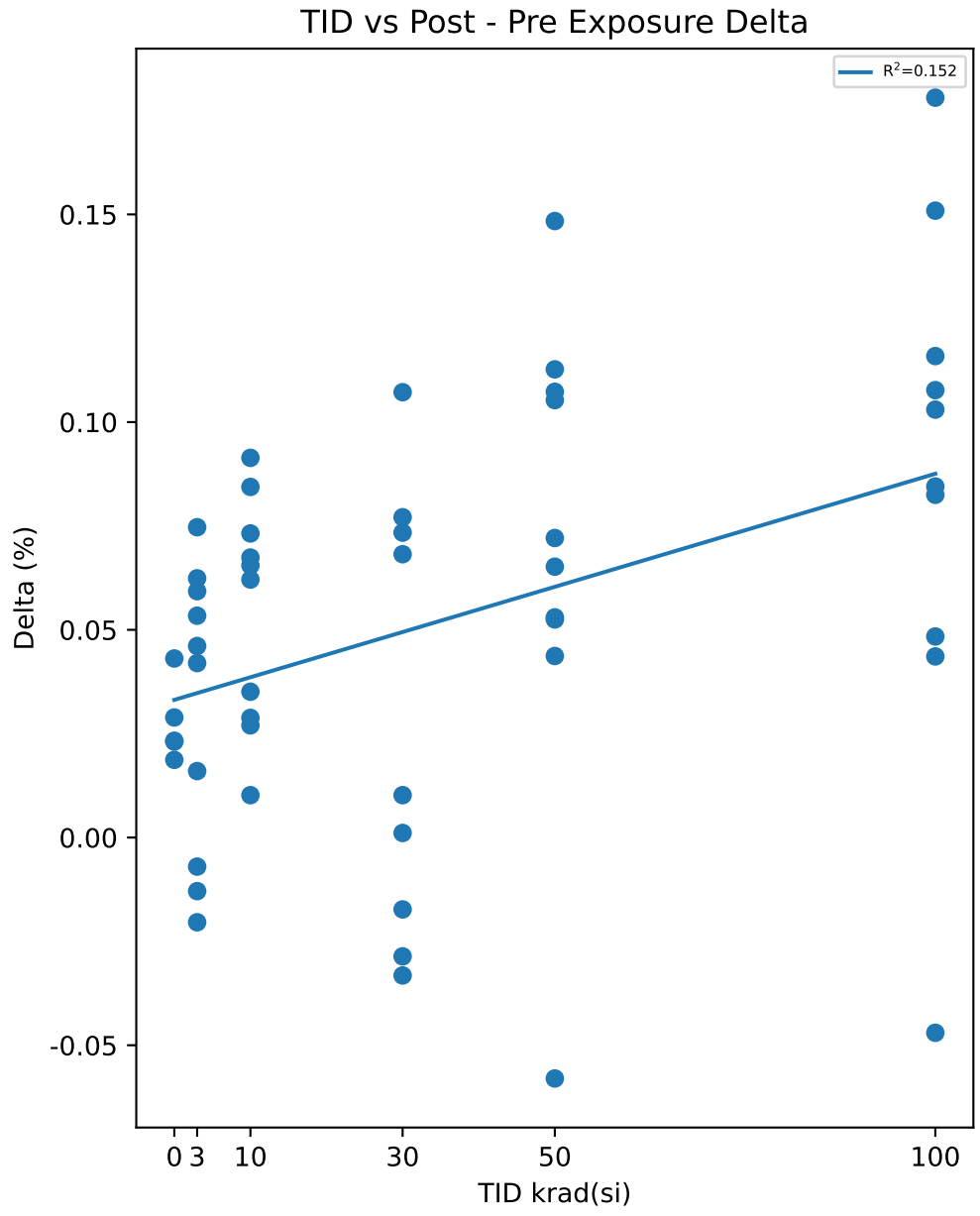
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	45.93	46.099	0.1695
411	100	Unbiased	46.1	46.179	0.0793
444	30	Unbiased	45.92	45.9	-0.0199
454	10	Unbiased	46.122	46.129	0.007
491	3	Unbiased	46.105	46.161	0.0559
500	100	Unbiased	45.768	45.765	-0.0027
534	100	Biased	45.955	46.039	0.0833
558	0	Correlation	45.775	45.822	0.0471
563	100	Biased	45.797	45.689	-0.1081
570	3	Unbiased	46.053	46.044	-0.0081
614	10	Unbiased	45.836	45.917	0.0818
675	3	Biased	45.811	45.834	0.023
713	100	Unbiased	45.935	46.027	0.0913
744	50	Biased	46.043	46.017	-0.0265
799	50	Biased	46.049	46.074	0.0243
842	30	Unbiased	46.034	46.161	0.1272
889	3	Unbiased	45.979	45.976	-0.0026
901	3	Biased	46.003	46.088	0.0846
930	50	Unbiased	45.922	46.003	0.0813
968	100	Unbiased	45.927	46.001	0.0744
976	100	Unbiased	45.855	46.005	0.1498
981	3	Biased	45.763	45.847	0.0841
1003	10	Biased	46.182	46.21	0.0273
1039	3	Biased	46.011	46.004	-0.0073
1053	100	Biased	45.771	45.938	0.1675
1056	0	Correlation	45.928	45.907	-0.0211
1072	10	Biased	46.044	46.121	0.0772
1095	50	Unbiased	46.04	46.15	0.1105
1099	0	Correlation	45.913	45.93	0.0168
1113	3	Biased	46.006	46.032	0.0259
1142	10	Unbiased	45.851	45.863	0.0117
1154	10	Biased	46.092	46.148	0.0559
1215	50	Unbiased	45.832	45.959	0.1268
1222	100	Biased	45.864	45.979	0.1158
1229	50	Unbiased	46.018	45.975	-0.0432
1255	3	Unbiased	46.003	46.033	0.0305
1331	30	Unbiased	45.752	45.847	0.0951
1359	30	Biased	45.832	45.875	0.0424
1375	30	Unbiased	45.983	45.96	-0.0225
1398	30	Biased	46.138	46.115	-0.0229
1411	50	Biased	45.803	45.946	0.1433
1465	10	Unbiased	46.036	46.082	0.0458
1474	50	Biased	45.919	45.988	0.0686
1504	50	Biased	46.007	45.95	-0.0567
1540	100	Biased	45.857	46.014	0.157
1554	3	Unbiased	45.949	45.907	-0.0415
1662	30	Biased	45.731	45.816	0.0851
1679	10	Biased	45.849	45.918	0.0684
1697	10	Biased	46.161	46.226	0.0652
1703	30	Biased	46.057	45.985	-0.0715
1704	10	Unbiased	46.059	46.114	0.0545
1736	30	Biased	45.934	45.938	0.0042
1737	0	Correlation	46.142	46.163	0.0203
1748	0	Correlation	45.715	45.757	0.042

Test Statistics (%)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	45.715	45.895	46.142	0.16535	45.757	45.916	46.163	0.15423	-0.0211	0.02102	0.0471	0.026985
3	45.763	45.968	46.105	0.1049	45.834	45.993	46.161	0.10409	-0.0415	0.02445	0.0846	0.041305
10	45.836	46.023	46.182	0.13146	45.863	46.073	46.226	0.12788	0.007	0.04948	0.0818	0.026293
30	45.731	45.931	46.138	0.13859	45.816	45.955	46.161	0.11709	-0.0715	0.024133	0.1272	0.066688
50	45.803	45.956	46.049	0.089335	45.946	46.016	46.15	0.069393	-0.0567	0.05979	0.1695	0.081305
100	45.768	45.883	46.1	0.1011	45.689	45.964	46.179	0.14042	-0.1081	0.08076	0.1675	0.083083

Device Test: 27.27 LEVEL|WRST_MAX/OUT/12/12/0/0/5/200kHz//@MAX_DCL_50





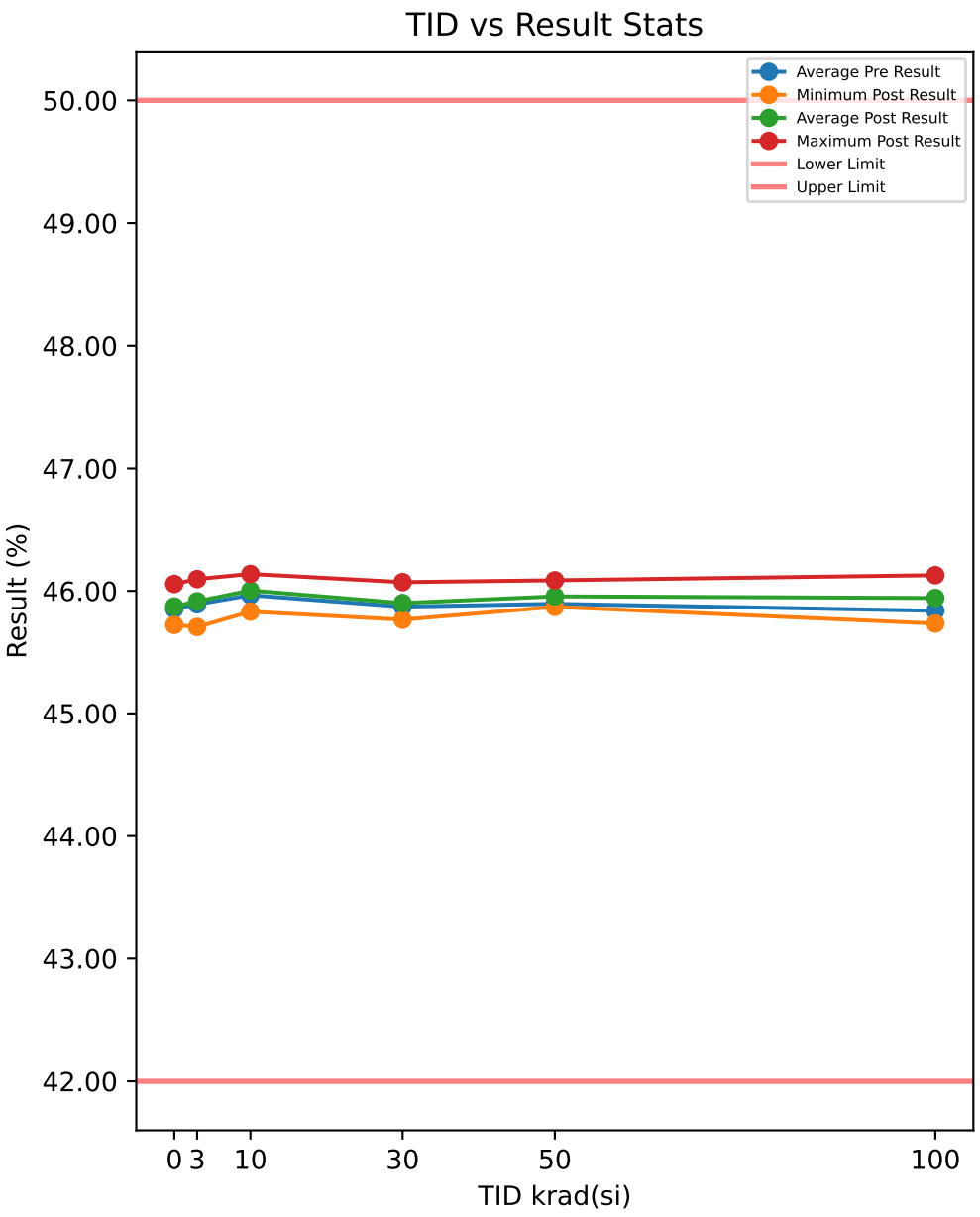
Test Results (Lower Limit = 42.0, Upper Limit = 50.0 (%))

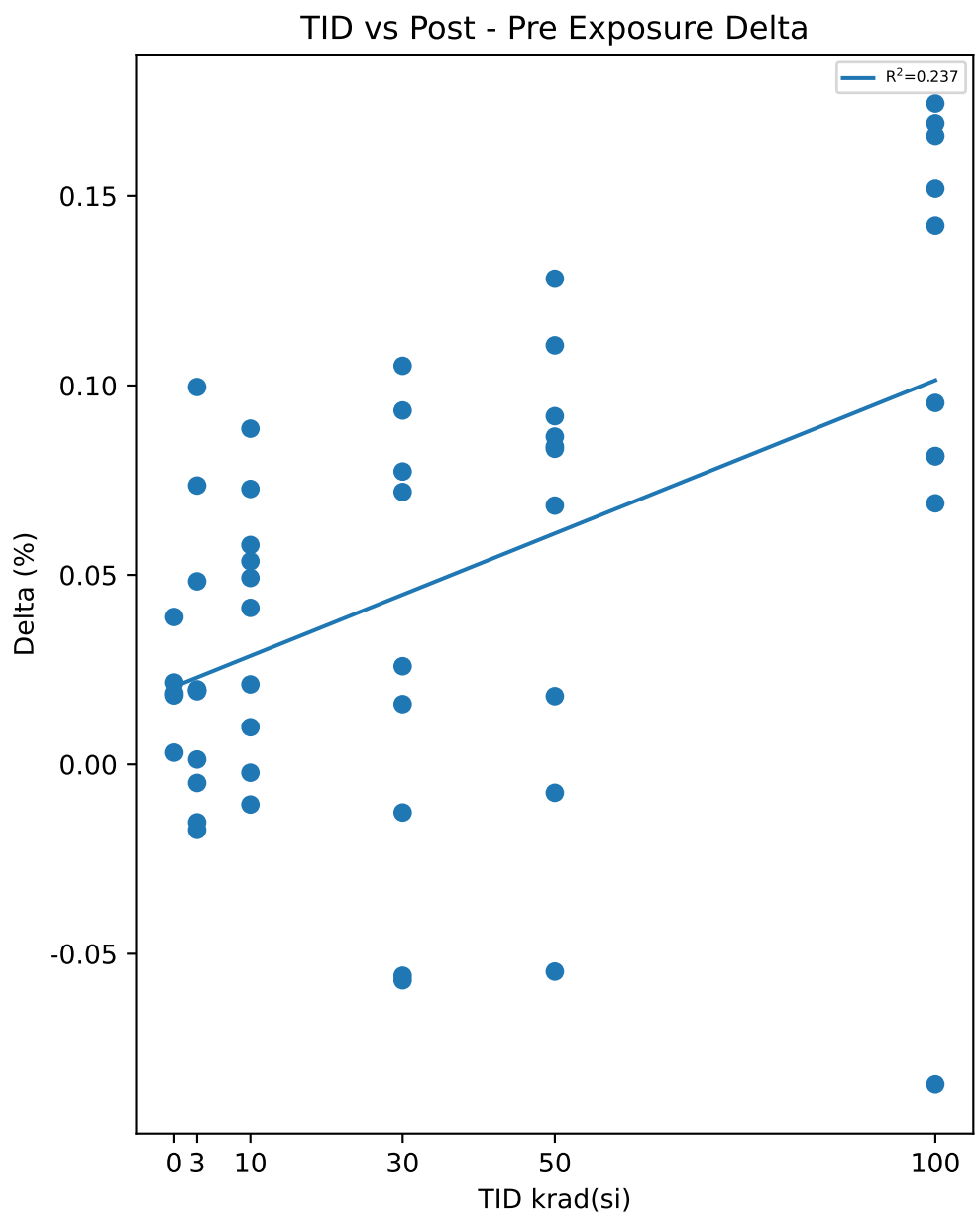
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	45.913	45.967	0.053
411	100	Unbiased	46.043	46.091	0.0484
444	30	Unbiased	45.857	45.867	0.0102
454	10	Unbiased	46.032	46.067	0.0351
491	3	Unbiased	46.082	46.098	0.016
500	100	Unbiased	45.751	45.794	0.0436
534	100	Biased	45.874	45.959	0.0845
558	0	Correlation	45.772	45.815	0.0431
563	100	Biased	45.801	45.754	-0.047
570	3	Unbiased	45.944	46.007	0.0624
614	10	Unbiased	45.777	45.851	0.0732
675	3	Biased	45.791	45.833	0.042
713	100	Unbiased	45.868	45.971	0.103
744	50	Biased	45.98	46.045	0.0652
799	50	Biased	45.94	46.047	0.1073
842	30	Unbiased	45.992	46.065	0.0734
889	3	Unbiased	45.913	45.96	0.0461
901	3	Biased	45.893	45.952	0.0593
930	50	Unbiased	45.877	45.949	0.0721
968	100	Unbiased	45.837	45.945	0.1077
976	100	Unbiased	45.757	45.908	0.1509
981	3	Biased	45.684	45.737	0.0534
1003	10	Biased	46.078	46.163	0.0844
1039	3	Biased	45.937	45.93	-0.007
1053	100	Biased	45.788	45.871	0.0825
1056	0	Correlation	45.905	45.928	0.0231
1072	10	Biased	46.008	46.036	0.0288
1095	50	Unbiased	45.963	46.111	0.1484
1099	0	Correlation	45.844	45.873	0.0289
1113	3	Biased	45.94	45.919	-0.0204
1142	10	Unbiased	45.819	45.884	0.0655
1154	10	Biased	45.996	46.063	0.0674
1215	50	Unbiased	45.819	45.931	0.1127
1222	100	Biased	45.872	45.988	0.1159
1229	50	Unbiased	45.892	45.944	0.0525
1255	3	Unbiased	45.965	45.952	-0.0129
1331	30	Unbiased	45.69	45.767	0.0771
1359	30	Biased	45.812	45.813	0.0011
1375	30	Unbiased	45.973	45.945	-0.0286
1398	30	Biased	46.055	46.022	-0.0332
1411	50	Biased	45.744	45.849	0.1053
1465	10	Unbiased	45.961	46.023	0.0621
1474	50	Biased	45.837	45.88	0.0437
1504	50	Biased	45.938	45.88	-0.058
1540	100	Biased	45.817	45.995	0.1781
1554	3	Unbiased	45.825	45.899	0.0747
1662	30	Biased	45.648	45.755	0.1072
1679	10	Biased	45.877	45.888	0.0102
1697	10	Biased	46.071	46.163	0.0914
1703	30	Biased	45.968	45.951	-0.0173
1704	10	Unbiased	45.934	45.961	0.027
1736	30	Biased	45.854	45.922	0.0682
1737	0	Correlation	46.06	46.084	0.0233
1748	0	Correlation	45.709	45.727	0.0187

Test Statistics (%)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	45.709	45.858	46.06	0.13523	45.727	45.885	46.084	0.13352	0.0187	0.02742	0.0431	0.0094832
3	45.684	45.898	46.082	0.10893	45.737	45.929	46.098	0.096389	-0.0204	0.03136	0.0747	0.034616
10	45.777	45.955	46.078	0.1031	45.851	46.01	46.163	0.11163	0.0102	0.05451	0.0914	0.027297
30	45.648	45.872	46.055	0.13911	45.755	45.901	46.065	0.10869	-0.0332	0.028678	0.1072	0.052913
50	45.744	45.89	45.98	0.073174	45.849	45.96	46.111	0.084319	-0.058	0.07022	0.1484	0.05608
100	45.751	45.841	46.043	0.084162	45.754	45.928	46.091	0.099756	-0.047	0.08676	0.1781	0.06259

Device Test: 27.28 LEVEL|WRST_MAX/OUT/14/14/0/0/5/200kHz//@MAX_DCL_50





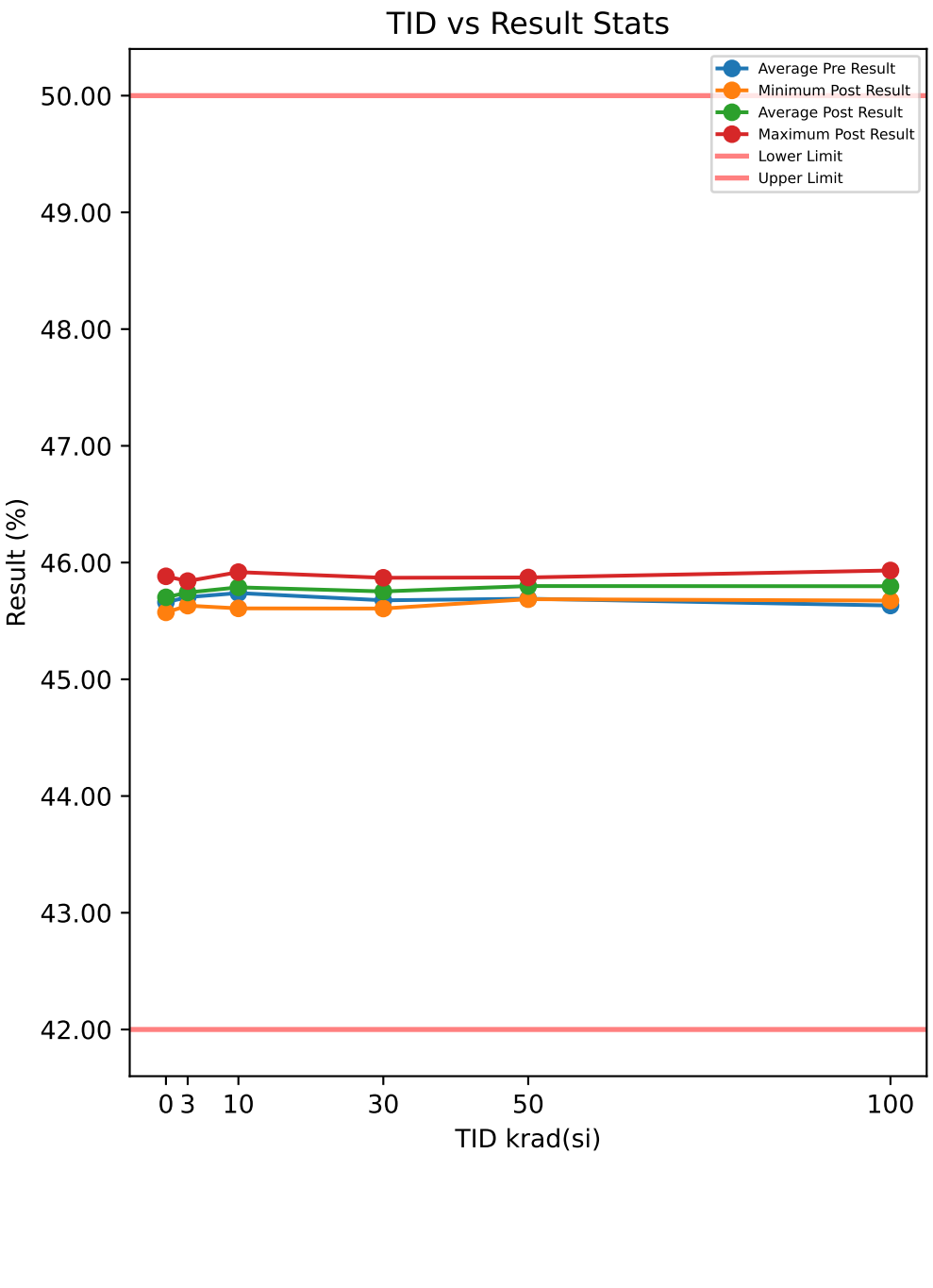
Test Results (Lower Limit = 42.0, Upper Limit = 50.0 (%))

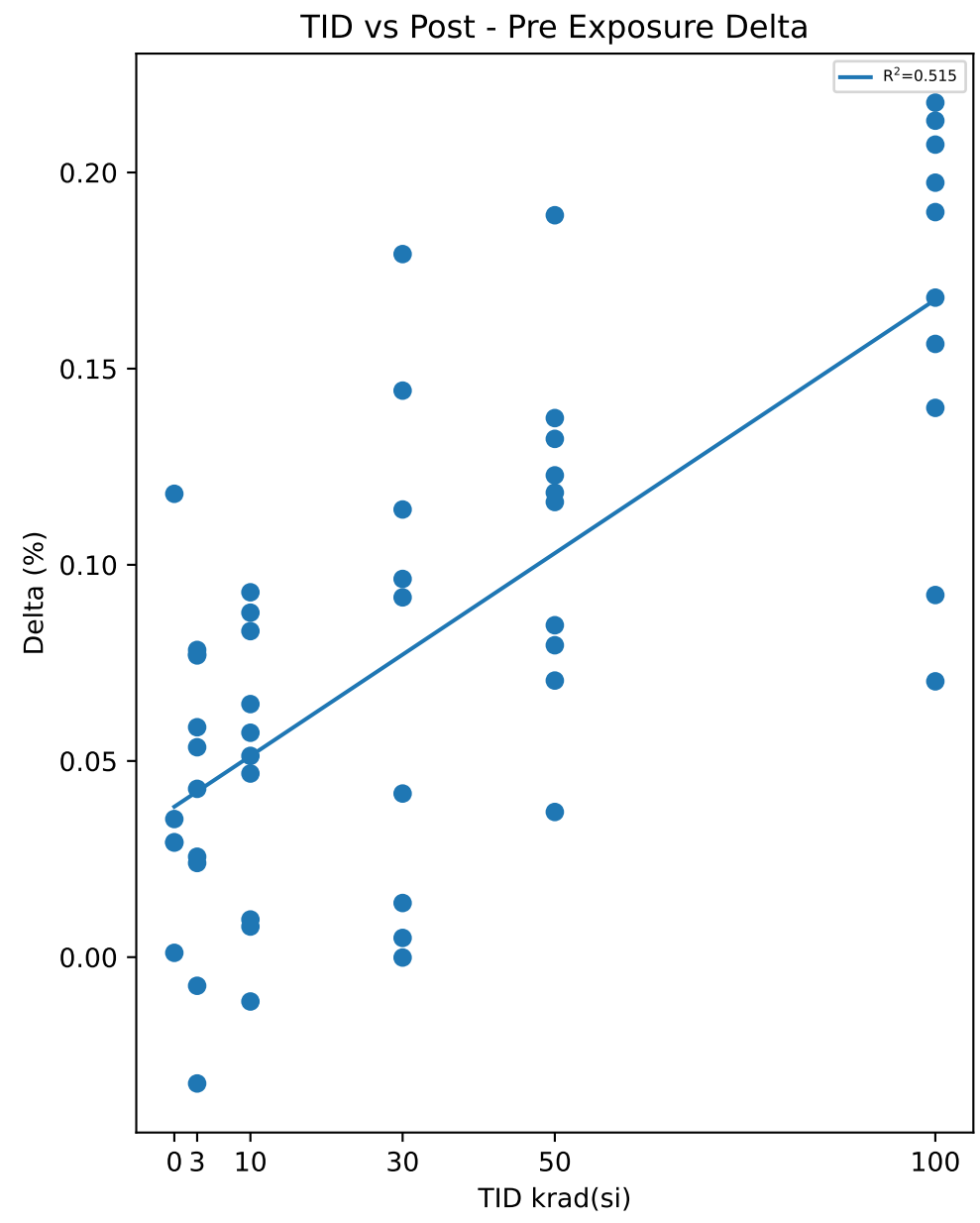
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	45.913	45.931	0.018
411	100	Unbiased	46.033	46.128	0.0954
444	30	Unbiased	45.869	45.885	0.0159
454	10	Unbiased	46.02	46.093	0.0727
491	3	Unbiased	46.078	46.097	0.0193
500	100	Unbiased	45.736	45.805	0.0689
534	100	Biased	45.884	46.026	0.1422
558	0	Correlation	45.774	45.777	0.0031
563	100	Biased	45.818	45.734	-0.0845
570	3	Unbiased	45.964	46.013	0.0483
614	10	Unbiased	45.781	45.831	0.0492
675	3	Biased	45.799	45.794	-0.0049
713	100	Unbiased	45.878	45.959	0.0813
744	50	Biased	45.997	45.989	-0.0075
799	50	Biased	45.956	46.048	0.0919
842	30	Unbiased	46	46.072	0.0719
889	3	Unbiased	45.923	45.925	0.0013
901	3	Biased	45.9	45.974	0.0736
930	50	Unbiased	45.872	45.955	0.0833
968	100	Unbiased	45.844	45.996	0.1519
976	100	Unbiased	45.752	45.926	0.1744
981	3	Biased	45.685	45.705	0.0198
1003	10	Biased	46.081	46.139	0.0579
1039	3	Biased	45.916	45.898	-0.0173
1053	100	Biased	45.785	45.867	0.0814
1056	0	Correlation	45.905	45.924	0.0188
1072	10	Biased	46.003	46.092	0.0886
1095	50	Unbiased	45.959	46.087	0.1282
1099	0	Correlation	45.844	45.883	0.0389
1113	3	Biased	45.902	45.921	0.0195
1142	10	Unbiased	45.842	45.84	-0.0022
1154	10	Biased	46.011	46.032	0.0211
1215	50	Unbiased	45.828	45.914	0.0865
1222	100	Biased	45.85	46.019	0.1692
1229	50	Unbiased	45.882	45.965	0.0839
1255	3	Unbiased	45.939	45.924	-0.0153
1331	30	Unbiased	45.709	45.787	0.0773
1359	30	Biased	45.809	45.797	-0.0127
1375	30	Unbiased	45.964	45.908	-0.0558
1398	30	Biased	46.065	46.008	-0.057
1411	50	Biased	45.759	45.87	0.1106
1465	10	Unbiased	45.983	46.024	0.0413
1474	50	Biased	45.839	45.908	0.0683
1504	50	Biased	45.941	45.887	-0.0547
1540	100	Biased	45.794	45.96	0.1659
1554	3	Unbiased	45.801	45.901	0.0996
1662	30	Biased	45.66	45.765	0.1052
1679	10	Biased	45.895	45.905	0.0098
1697	10	Biased	46.068	46.122	0.0536
1703	30	Biased	45.933	45.959	0.0259
1704	10	Unbiased	45.968	45.957	-0.0106
1736	30	Biased	45.832	45.926	0.0934
1737	0	Correlation	46.038	46.057	0.0182
1748	0	Correlation	45.701	45.722	0.0216

Test Statistics (%)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	45.701	45.852	46.038	0.12901	45.722	45.873	46.057	0.13063	0.0031	0.02012	0.0389	0.012747
3	45.685	45.891	46.078	0.10709	45.705	45.915	46.097	0.10825	-0.0173	0.02439	0.0996	0.038622
10	45.781	45.965	46.081	0.096995	45.831	46.003	46.139	0.11439	-0.0106	0.03814	0.0886	0.032658
30	45.66	45.871	46.065	0.13356	45.765	45.901	46.072	0.10448	-0.057	0.029344	0.1052	0.06188
50	45.759	45.895	45.997	0.072628	45.87	45.955	46.087	0.069761	-0.0547	0.06085	0.1282	0.057333
100	45.736	45.837	46.033	0.084896	45.734	45.942	46.128	0.11523	-0.0845	0.10461	0.1744	0.077927

Device Test: 27.29 LEVEL|WRST_MAX/OUT/12/12/0/0/5/500kHz//@MAX_DCL_50





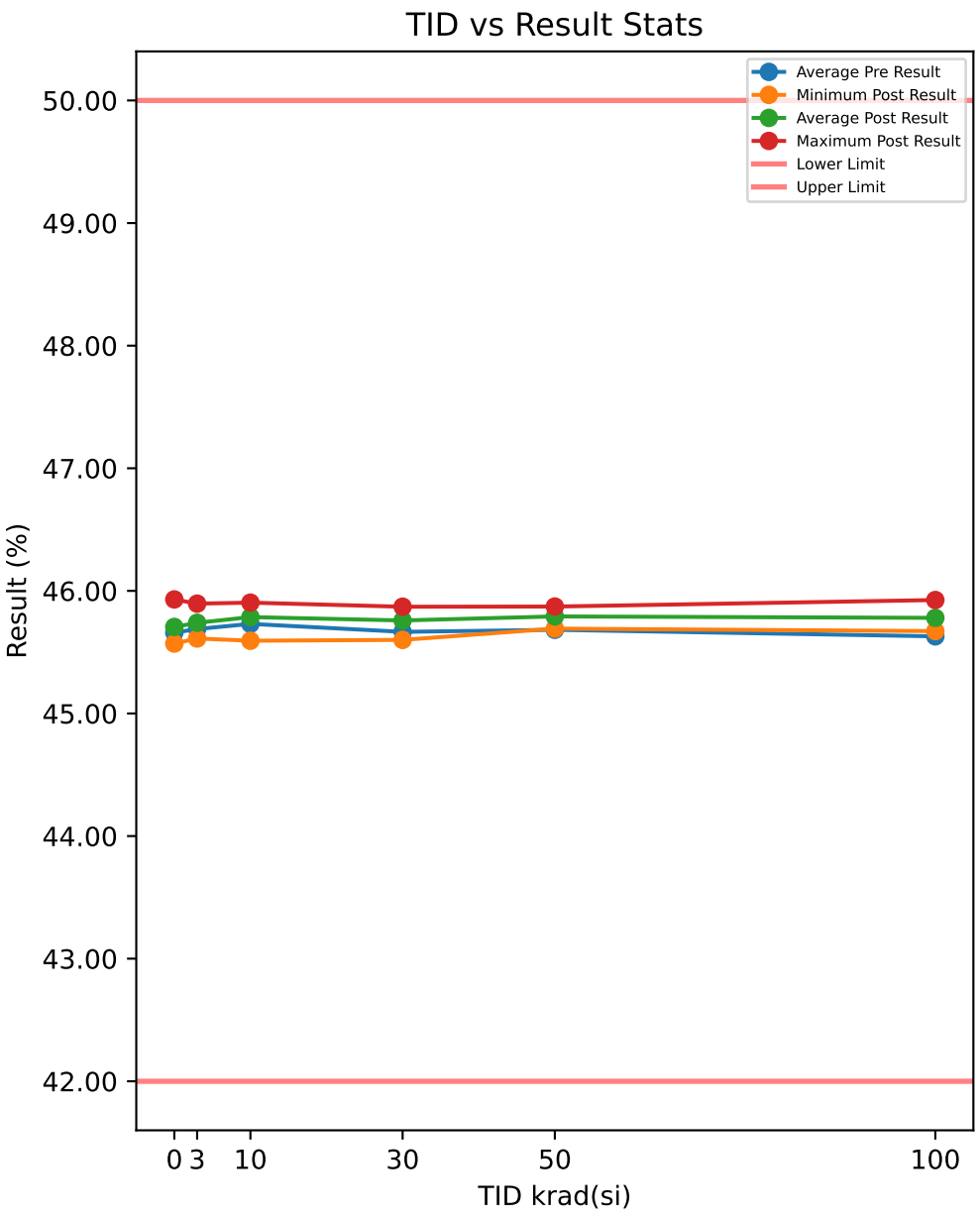
Test Results (Lower Limit = 42.0, Upper Limit = 50.0 (%))

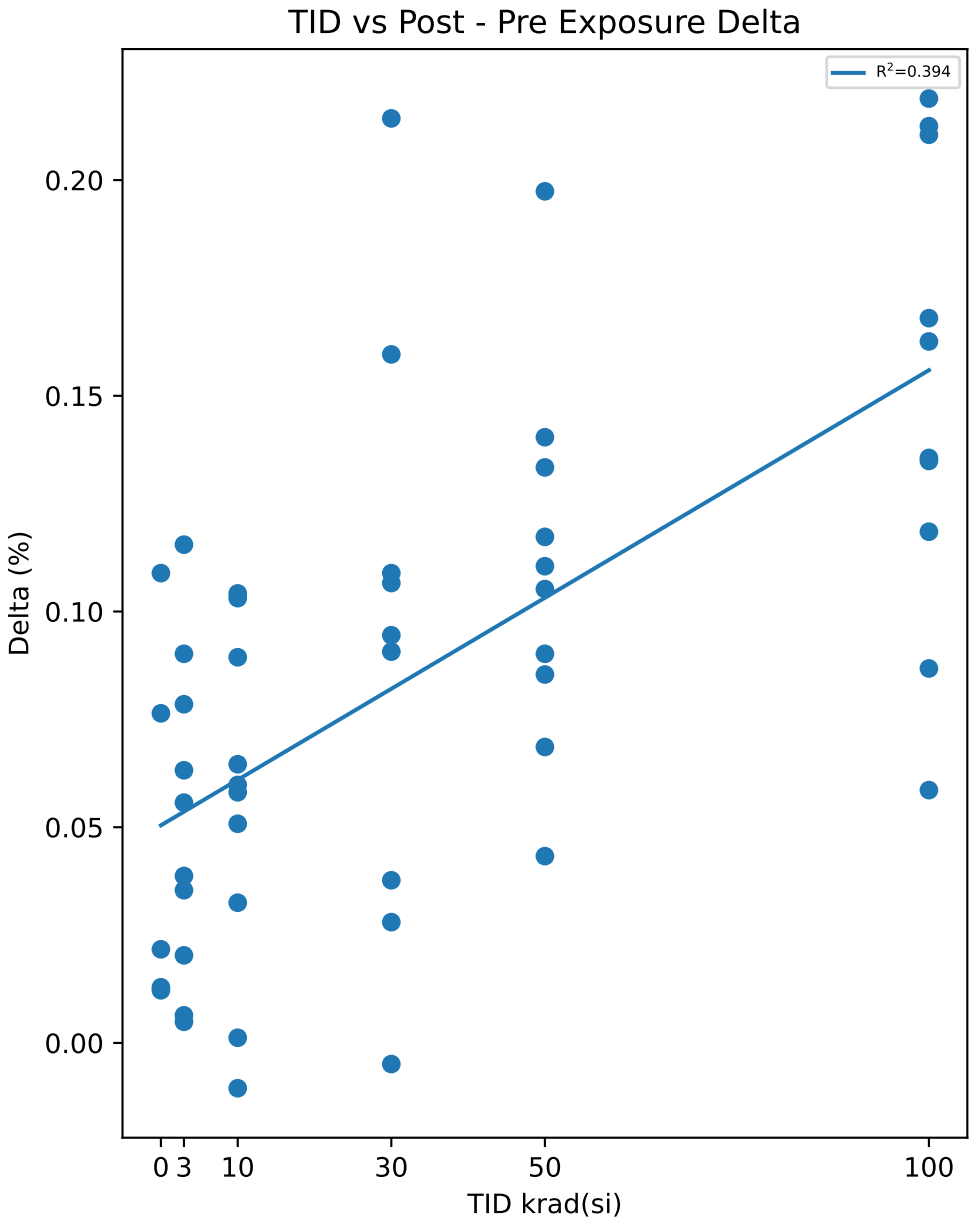
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	45.71	45.826	0.116
411	100	Unbiased	45.776	45.932	0.1563
444	30	Unbiased	45.713	45.755	0.0417
454	10	Unbiased	45.785	45.832	0.0468
491	3	Unbiased	45.816	45.841	0.0256
500	100	Unbiased	45.582	45.674	0.0923
534	100	Biased	45.65	45.79	0.14
558	0	Correlation	45.572	45.573	0.0011
563	100	Biased	45.653	45.723	0.0703
570	3	Unbiased	45.723	45.8	0.0769
614	10	Unbiased	45.597	45.649	0.0513
675	3	Biased	45.645	45.698	0.0535
713	100	Unbiased	45.711	45.879	0.1681
744	50	Biased	45.761	45.798	0.037
799	50	Biased	45.74	45.872	0.1321
842	30	Unbiased	45.778	45.87	0.0917
889	3	Unbiased	45.756	45.78	0.024
901	3	Biased	45.63	45.707	0.0772
930	50	Unbiased	45.64	45.829	0.1891
968	100	Unbiased	45.553	45.766	0.2132
976	100	Unbiased	45.564	45.782	0.2178
981	3	Biased	45.572	45.631	0.0586
1003	10	Biased	45.883	45.89	0.0078
1039	3	Biased	45.73	45.697	-0.0322
1053	100	Biased	45.617	45.824	0.2071
1056	0	Correlation	45.708	45.737	0.0293
1072	10	Biased	45.825	45.918	0.093
1095	50	Unbiased	45.736	45.821	0.0846
1099	0	Correlation	45.616	45.734	0.1181
1113	3	Biased	45.724	45.717	-0.0073
1142	10	Unbiased	45.598	45.608	0.0096
1154	10	Biased	45.738	45.795	0.0572
1215	50	Unbiased	45.665	45.783	0.1184
1222	100	Biased	45.691	45.881	0.1899
1229	50	Unbiased	45.73	45.852	0.1228
1255	3	Unbiased	45.774	45.817	0.0429
1331	30	Unbiased	45.482	45.627	0.1444
1359	30	Biased	45.606	45.606	-0.0001
1375	30	Unbiased	45.795	45.8	0.0049
1398	30	Biased	45.803	45.816	0.0138
1411	50	Biased	45.616	45.686	0.0705
1465	10	Unbiased	45.743	45.826	0.0831
1474	50	Biased	45.614	45.694	0.0795
1504	50	Biased	45.689	45.826	0.1374
1540	100	Biased	45.525	45.722	0.1974
1554	3	Unbiased	45.67	45.748	0.0783
1662	30	Biased	45.52	45.616	0.0964
1679	10	Biased	45.724	45.713	-0.0113
1697	10	Biased	45.807	45.895	0.0878
1703	30	Biased	45.747	45.861	0.1141
1704	10	Unbiased	45.688	45.753	0.0645
1736	30	Biased	45.645	45.824	0.1792
1737	0	Correlation	45.853	45.882	0.0292
1748	0	Correlation	45.549	45.584	0.0352

Test Statistics (%)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	45.549	45.66	45.853	0.12395	45.573	45.702	45.882	0.12758	0.0011	0.04258	0.1181	0.044254
3	45.572	45.704	45.816	0.073772	45.631	45.744	45.841	0.065246	-0.0322	0.03975	0.0783	0.037508
10	45.597	45.739	45.883	0.092805	45.608	45.788	45.918	0.10596	-0.0113	0.04898	0.093	0.036221
30	45.482	45.677	45.803	0.11984	45.606	45.753	45.87	0.10775	-0.0001	0.076233	0.1792	0.064551
50	45.614	45.69	45.761	0.053844	45.686	45.799	45.872	0.062453	0.037	0.10874	0.1891	0.042446
100	45.525	45.632	45.776	0.079081	45.674	45.797	45.932	0.081768	0.0703	0.16524	0.2178	0.051117

Device Test: 27.30 LEVEL|WRST_MAX/OUT/14/14/0/0/5/500kHz//@MAX_DCL_50





Test Results (Lower Limit = 42.0, Upper Limit = 50.0 (%))

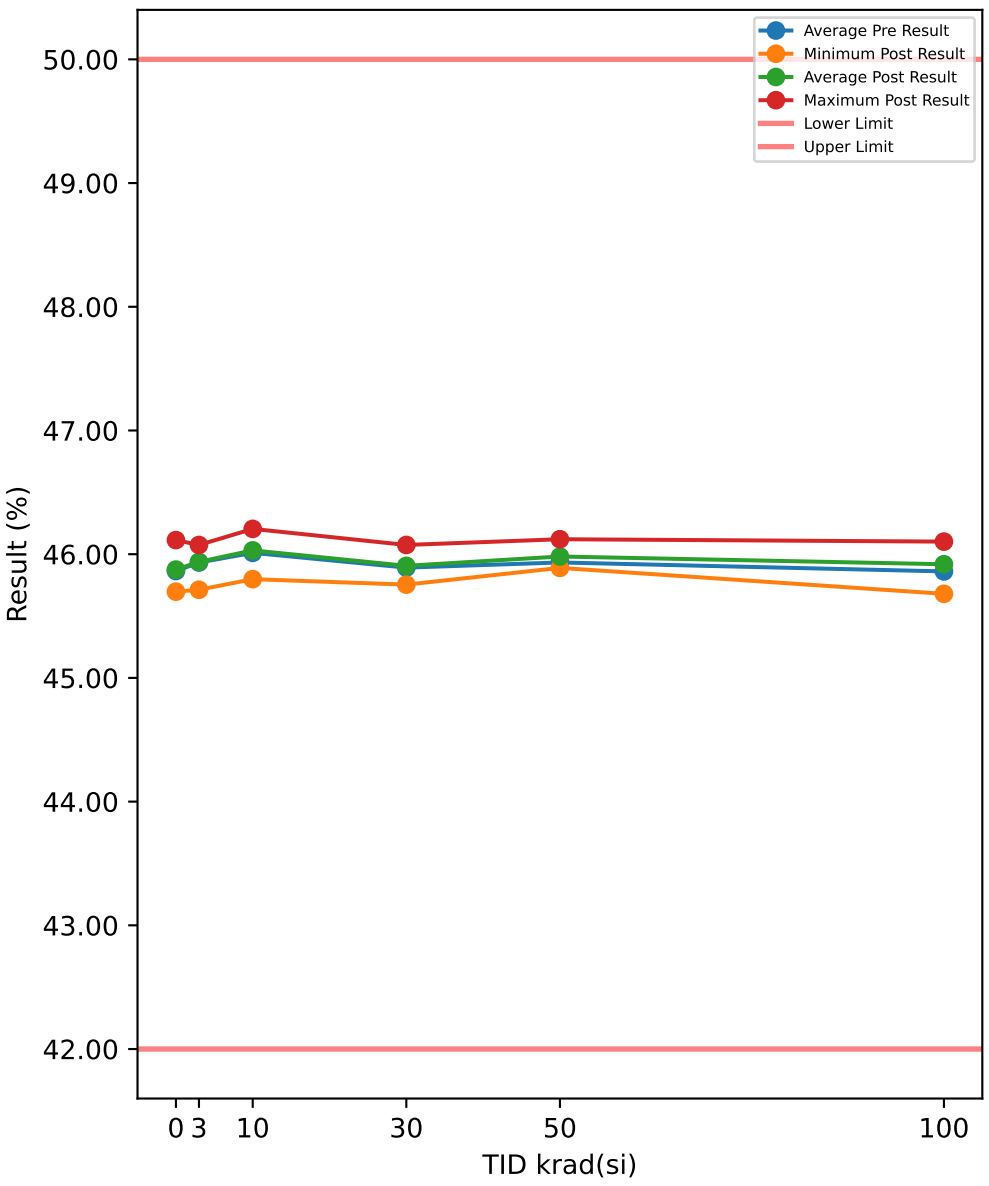
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	45.709	45.799	0.0902
411	100	Unbiased	45.757	45.925	0.168
444	30	Unbiased	45.693	45.783	0.0907
454	10	Unbiased	45.768	45.8	0.0325
491	3	Unbiased	45.806	45.896	0.0902
500	100	Unbiased	45.585	45.672	0.0868
534	100	Biased	45.637	45.755	0.1185
558	0	Correlation	45.556	45.578	0.0217
563	100	Biased	45.644	45.703	0.0586
570	3	Unbiased	45.705	45.783	0.0785
614	10	Unbiased	45.592	45.643	0.0508
675	3	Biased	45.633	45.696	0.0632
713	100	Unbiased	45.683	45.845	0.1626
744	50	Biased	45.741	45.785	0.0433
799	50	Biased	45.732	45.872	0.1404
842	30	Unbiased	45.776	45.871	0.0945
889	3	Unbiased	45.754	45.775	0.0203
901	3	Biased	45.617	45.656	0.0387
930	50	Unbiased	45.651	45.848	0.1974
968	100	Unbiased	45.588	45.723	0.1349
976	100	Unbiased	45.553	45.764	0.2105
981	3	Biased	45.576	45.611	0.0354
1003	10	Biased	45.843	45.902	0.0598
1039	3	Biased	45.7	45.706	0.0064
1053	100	Biased	45.628	45.764	0.1356
1056	0	Correlation	45.724	45.736	0.0122
1072	10	Biased	45.814	45.904	0.0894
1095	50	Unbiased	45.72	45.837	0.1173
1099	0	Correlation	45.604	45.713	0.1089
1113	3	Biased	45.719	45.724	0.0049
1142	10	Unbiased	45.592	45.593	0.0012
1154	10	Biased	45.749	45.813	0.0646
1215	50	Unbiased	45.656	45.761	0.1052
1222	100	Biased	45.683	45.902	0.2189
1229	50	Unbiased	45.699	45.832	0.1334
1255	3	Unbiased	45.735	45.791	0.0557
1331	30	Unbiased	45.487	45.647	0.1596
1359	30	Biased	45.572	45.6	0.028
1375	30	Unbiased	45.78	45.818	0.0377
1398	30	Biased	45.819	45.814	-0.0049
1411	50	Biased	45.613	45.699	0.0854
1465	10	Unbiased	45.732	45.836	0.1042
1474	50	Biased	45.623	45.692	0.0686
1504	50	Biased	45.679	45.789	0.1105
1540	100	Biased	45.533	45.745	0.2125
1554	3	Unbiased	45.642	45.758	0.1155
1662	30	Biased	45.5	45.607	0.1066
1679	10	Biased	45.716	45.705	-0.0105
1697	10	Biased	45.801	45.904	0.1031
1703	30	Biased	45.736	45.845	0.1089
1704	10	Unbiased	45.701	45.759	0.0581
1736	30	Biased	45.628	45.842	0.2143
1737	0	Correlation	45.854	45.93	0.0764
1748	0	Correlation	45.557	45.57	0.0129

Test Statistics (%)

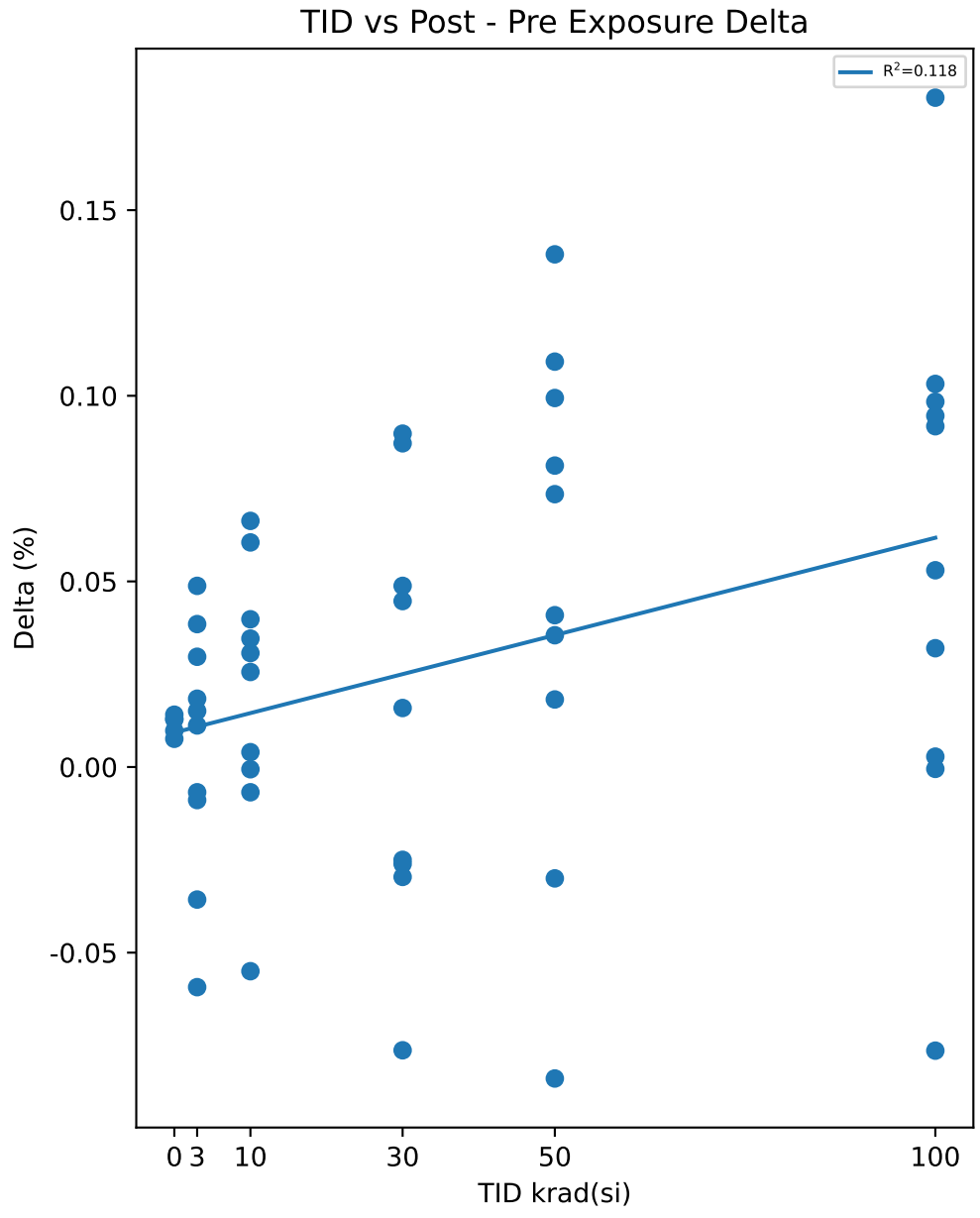
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	45.556	45.659	45.854	0.12842	45.57	45.706	45.93	0.14651	0.0122	0.04642	0.1089	0.043898
3	45.576	45.689	45.806	0.070248	45.611	45.739	45.896	0.079698	0.0049	0.05088	0.1155	0.036629
10	45.592	45.731	45.843	0.085464	45.593	45.786	45.904	0.11041	-0.0105	0.05532	0.1042	0.039087
30	45.487	45.666	45.819	0.12443	45.6	45.759	45.871	0.10889	-0.0049	0.092822	0.2143	0.067511
50	45.613	45.682	45.741	0.045103	45.692	45.791	45.872	0.060624	0.0433	0.10917	0.1974	0.04261
100	45.533	45.629	45.757	0.067659	45.672	45.78	45.925	0.084033	0.0586	0.15069	0.2189	0.054332

Device Test: 27.45 LEVEL|DCL/OUT/8/8/0/0/5/100kHz//@MAX_DCL_50

TID vs Result Stats



TID vs Post - Pre Exposure Delta



Test Results (Lower Limit = 42.0, Upper Limit = 50.0 (%))

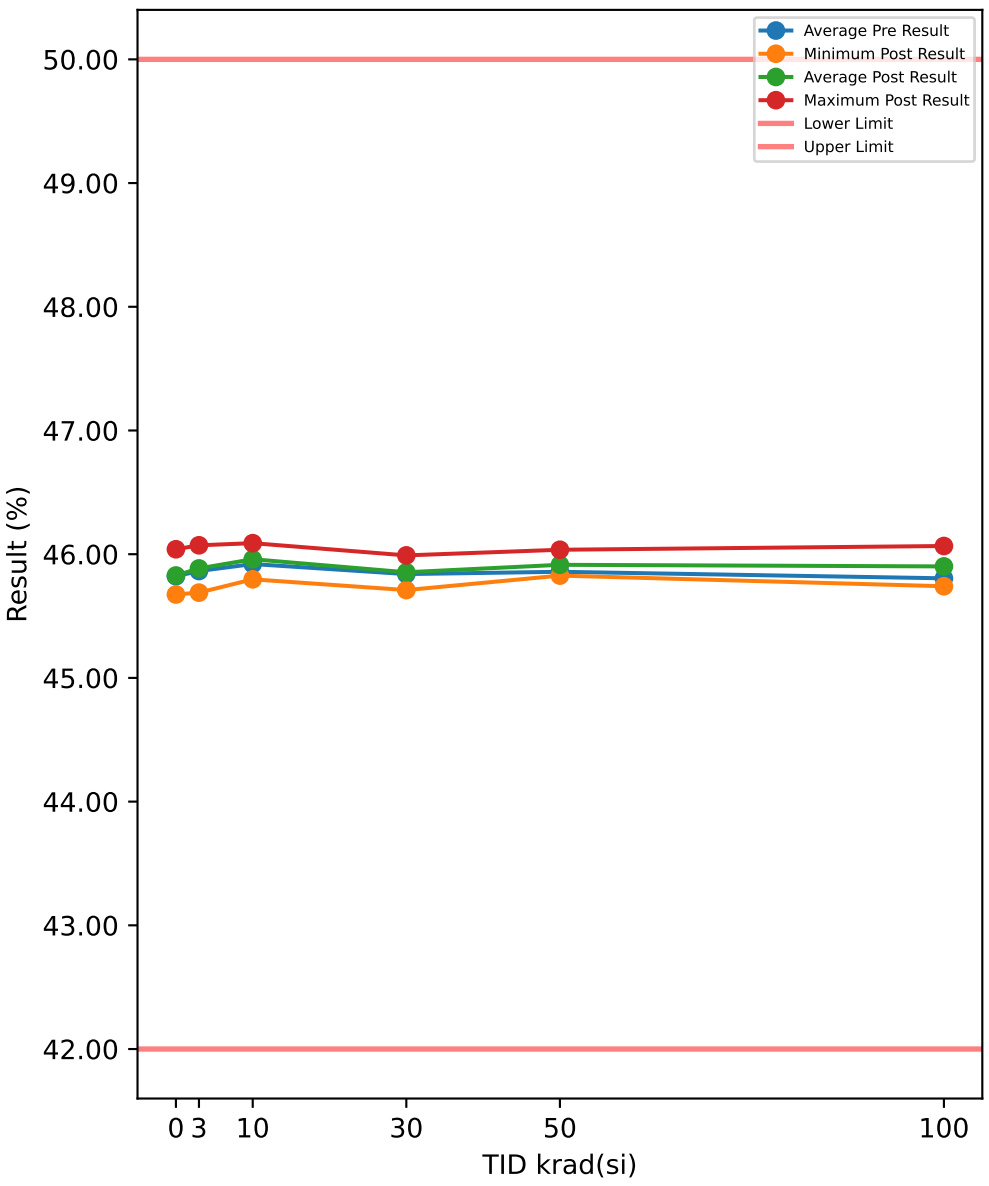
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	45.928	46.037	0.1092
411	100	Unbiased	46.099	46.102	0.0028
444	30	Unbiased	45.87	45.841	-0.0296
454	10	Unbiased	46.089	46.124	0.0346
491	3	Unbiased	46.11	46.075	-0.0357
500	100	Unbiased	45.764	45.764	-0.0005
534	100	Biased	45.907	45.998	0.0918
558	0	Correlation	45.776	45.786	0.0098
563	100	Biased	45.756	45.68	-0.0764
570	3	Unbiased	46	46.038	0.0385
614	10	Unbiased	45.801	45.841	0.0398
675	3	Biased	45.803	45.796	-0.0068
713	100	Unbiased	45.875	45.928	0.053
744	50	Biased	46.026	45.996	-0.03
799	50	Biased	46.007	46.048	0.0409
842	30	Unbiased	46.03	46.075	0.0447
889	3	Unbiased	45.939	45.95	0.0112
901	3	Biased	45.944	45.974	0.0297
930	50	Unbiased	45.908	45.981	0.0735
968	100	Unbiased	45.908	45.94	0.032
976	100	Unbiased	45.81	45.913	0.1032
981	3	Biased	45.697	45.712	0.0151
1003	10	Biased	46.179	46.205	0.0256
1039	3	Biased	45.979	45.971	-0.0089
1053	100	Biased	45.792	45.891	0.0984
1056	0	Correlation	45.887	45.9	0.0129
1072	10	Biased	46.038	46.069	0.0307
1095	50	Unbiased	45.983	46.121	0.1381
1099	0	Correlation	45.866	45.88	0.0141
1113	3	Biased	45.966	45.984	0.0184
1142	10	Unbiased	45.853	45.798	-0.055
1154	10	Biased	46.073	46.133	0.0605
1215	50	Unbiased	45.85	45.931	0.0812
1222	100	Biased	45.891	45.986	0.0946
1229	50	Unbiased	45.97	45.989	0.0182
1255	3	Unbiased	46.024	45.964	-0.0593
1331	30	Unbiased	45.705	45.754	0.0488
1359	30	Biased	45.781	45.871	0.0898
1375	30	Unbiased	45.986	45.91	-0.0763
1398	30	Biased	46.1	46.074	-0.0261
1411	50	Biased	45.79	45.889	0.0994
1465	10	Unbiased	46.043	46.047	0.004
1474	50	Biased	45.89	45.926	0.0355
1504	50	Biased	45.98	45.896	-0.0839
1540	100	Biased	45.806	45.987	0.1803
1554	3	Unbiased	45.865	45.914	0.0488
1662	30	Biased	45.684	45.771	0.0872
1679	10	Biased	45.861	45.861	-0.0006
1697	10	Biased	46.119	46.186	0.0663
1703	30	Biased	45.994	45.969	-0.025
1704	10	Unbiased	46.052	46.045	-0.0068
1736	30	Biased	45.874	45.89	0.0159
1737	0	Correlation	46.106	46.114	0.0076
1748	0	Correlation	45.684	45.697	0.0129

Test Statistics (%)

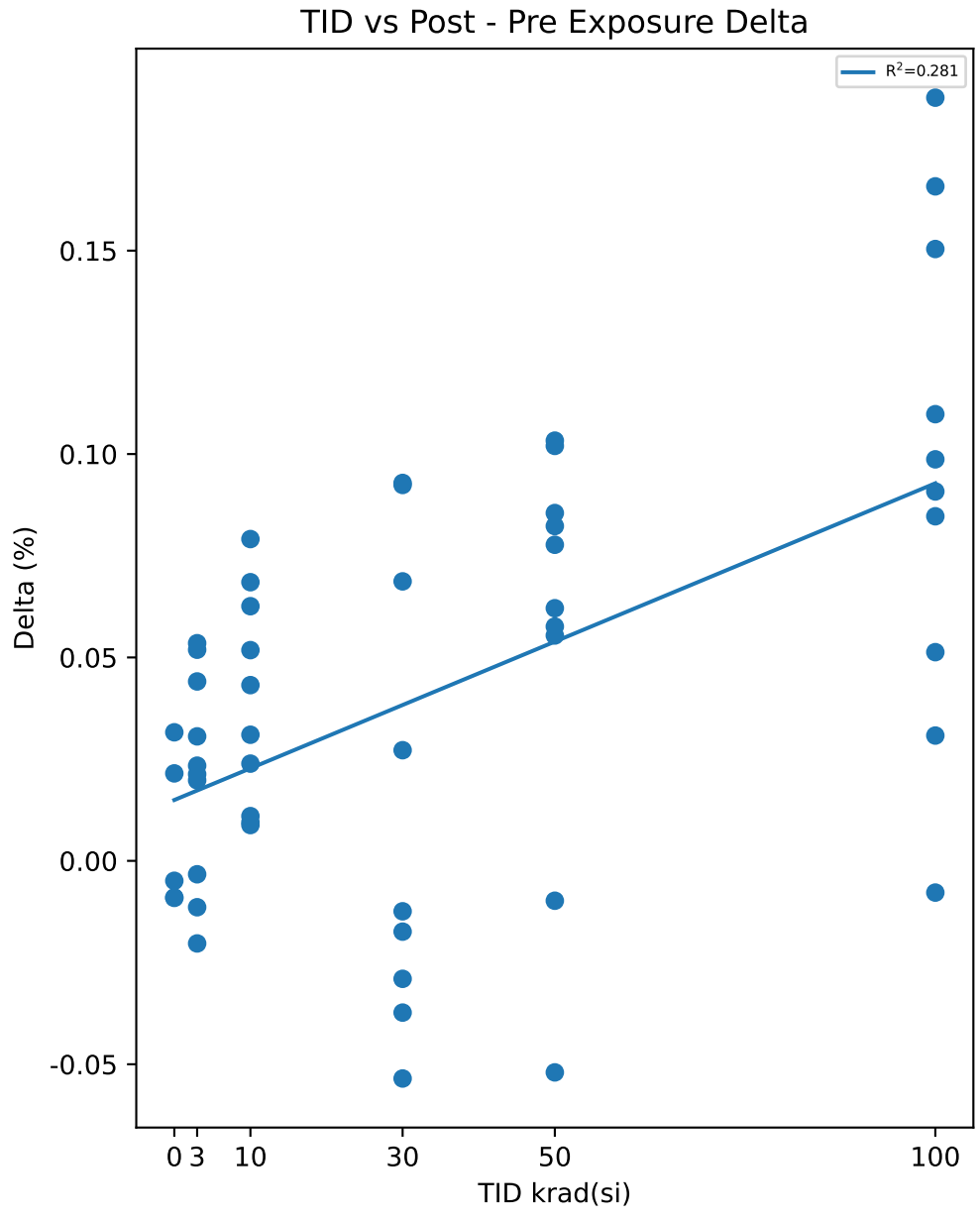
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	45.684	45.864	46.106	0.15752	45.697	45.876	46.114	0.15593	0.0076	0.01146	0.0141	0.002682
3	45.697	45.933	46.11	0.1176	45.712	45.938	46.075	0.10829	-0.0593	0.0051	0.0488	0.03349
10	45.801	46.011	46.179	0.12682	45.798	46.031	46.205	0.14698	-0.055	0.01991	0.0663	0.035837
30	45.684	45.892	46.1	0.14683	45.754	45.906	46.075	0.1159	-0.0763	0.014378	0.0898	0.057493
50	45.79	45.933	46.026	0.074555	45.889	45.981	46.121	0.073442	-0.0839	0.04821	0.1381	0.067358
100	45.756	45.861	46.099	0.10152	45.68	45.919	46.102	0.1209	-0.0764	0.05792	0.1803	0.071762

Device Test: 27.46 LEVEL|DCL/OUT/8/8/0/0/5/200kHz//@MAX_DCL_50

TID vs Result Stats



TID vs Post - Pre Exposure Delta



Test Results (Lower Limit = 42.0, Upper Limit = 50.0 (%))

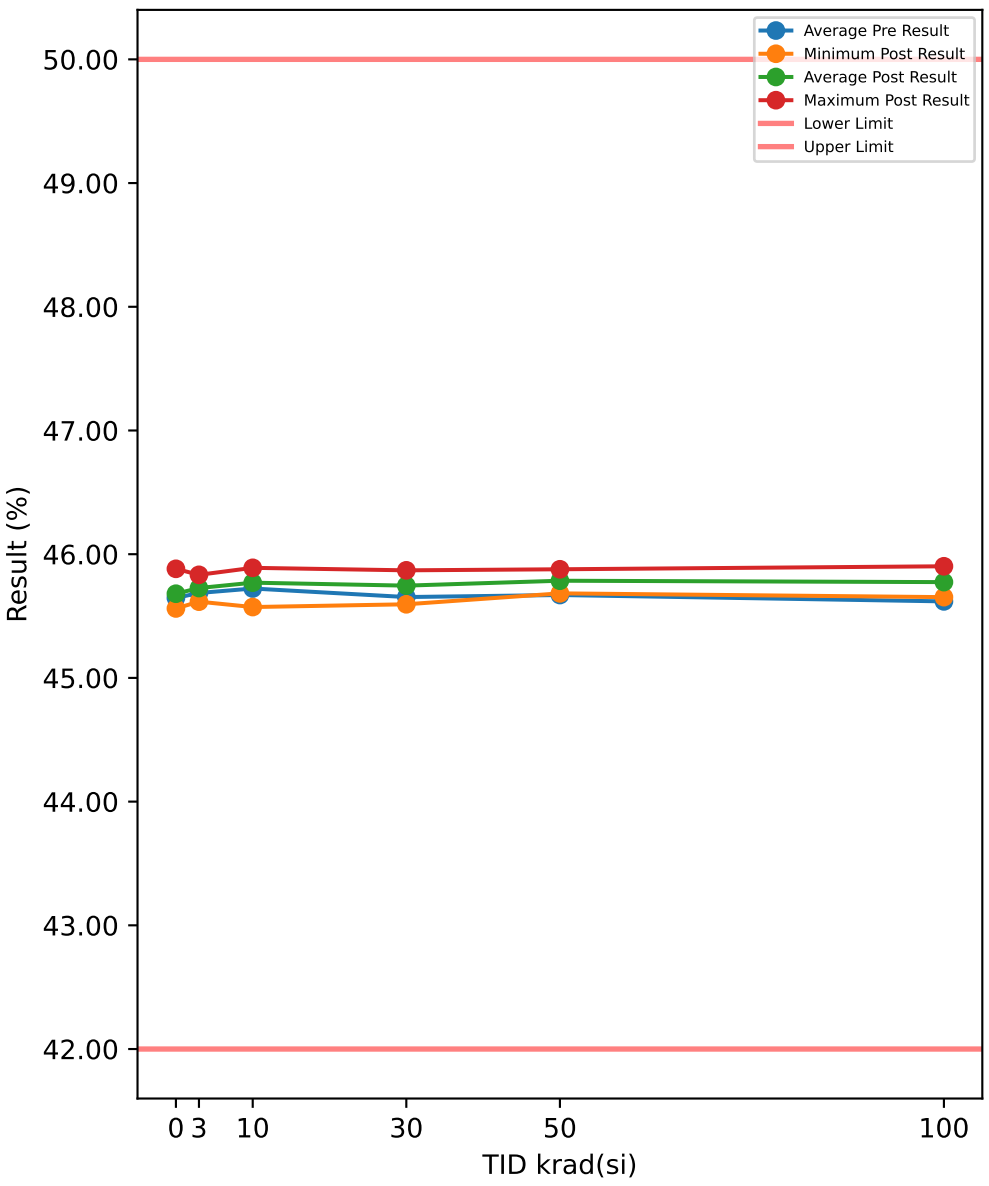
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	45.877	45.935	0.0576
411	100	Unbiased	46.015	46.066	0.0513
444	30	Unbiased	45.844	45.827	-0.0174
454	10	Unbiased	46.007	46.016	0.0095
491	3	Unbiased	46.041	46.072	0.0306
500	100	Unbiased	45.713	45.744	0.0308
534	100	Biased	45.843	45.942	0.0987
558	0	Correlation	45.739	45.73	-0.009
563	100	Biased	45.749	45.741	-0.0078
570	3	Unbiased	45.925	45.979	0.0535
614	10	Unbiased	45.743	45.822	0.0791
675	3	Biased	45.772	45.794	0.0213
713	100	Unbiased	45.849	45.933	0.0847
744	50	Biased	45.956	45.946	-0.0098
799	50	Biased	45.93	46.012	0.0823
842	30	Unbiased	45.963	45.99	0.0272
889	3	Unbiased	45.89	45.91	0.0198
901	3	Biased	45.865	45.888	0.0234
930	50	Unbiased	45.829	45.914	0.0855
968	100	Unbiased	45.825	45.916	0.0908
976	100	Unbiased	45.736	45.901	0.1658
981	3	Biased	45.645	45.689	0.0441
1003	10	Biased	46.057	46.088	0.031
1039	3	Biased	45.895	45.883	-0.0114
1053	100	Biased	45.742	45.852	0.1098
1056	0	Correlation	45.854	45.875	0.0215
1072	10	Biased	45.971	46.023	0.0518
1095	50	Unbiased	45.934	46.036	0.102
1099	0	Correlation	45.825	45.82	-0.0049
1113	3	Biased	45.903	45.882	-0.0203
1142	10	Unbiased	45.773	45.797	0.0239
1154	10	Biased	45.935	46.003	0.0685
1215	50	Unbiased	45.786	45.864	0.0777
1222	100	Biased	45.829	45.98	0.1504
1229	50	Unbiased	45.849	45.905	0.0554
1255	3	Unbiased	45.913	45.909	-0.0033
1331	30	Unbiased	45.641	45.733	0.0924
1359	30	Biased	45.773	45.744	-0.029
1375	30	Unbiased	45.953	45.916	-0.0373
1398	30	Biased	46.02	45.967	-0.0535
1411	50	Biased	45.724	45.827	0.1033
1465	10	Unbiased	45.953	45.964	0.011
1474	50	Biased	45.794	45.856	0.0621
1504	50	Biased	45.9	45.848	-0.052
1540	100	Biased	45.751	45.938	0.1876
1554	3	Unbiased	45.791	45.842	0.0519
1662	30	Biased	45.617	45.71	0.0929
1679	10	Biased	45.823	45.867	0.0432
1697	10	Biased	46.027	46.089	0.0626
1703	30	Biased	45.934	45.922	-0.0124
1704	10	Unbiased	45.914	45.923	0.0088
1736	30	Biased	45.808	45.877	0.0687
1737	0	Correlation	46.008	46.04	0.0316
1748	0	Correlation	45.683	45.674	-0.0091

Test Statistics (%)

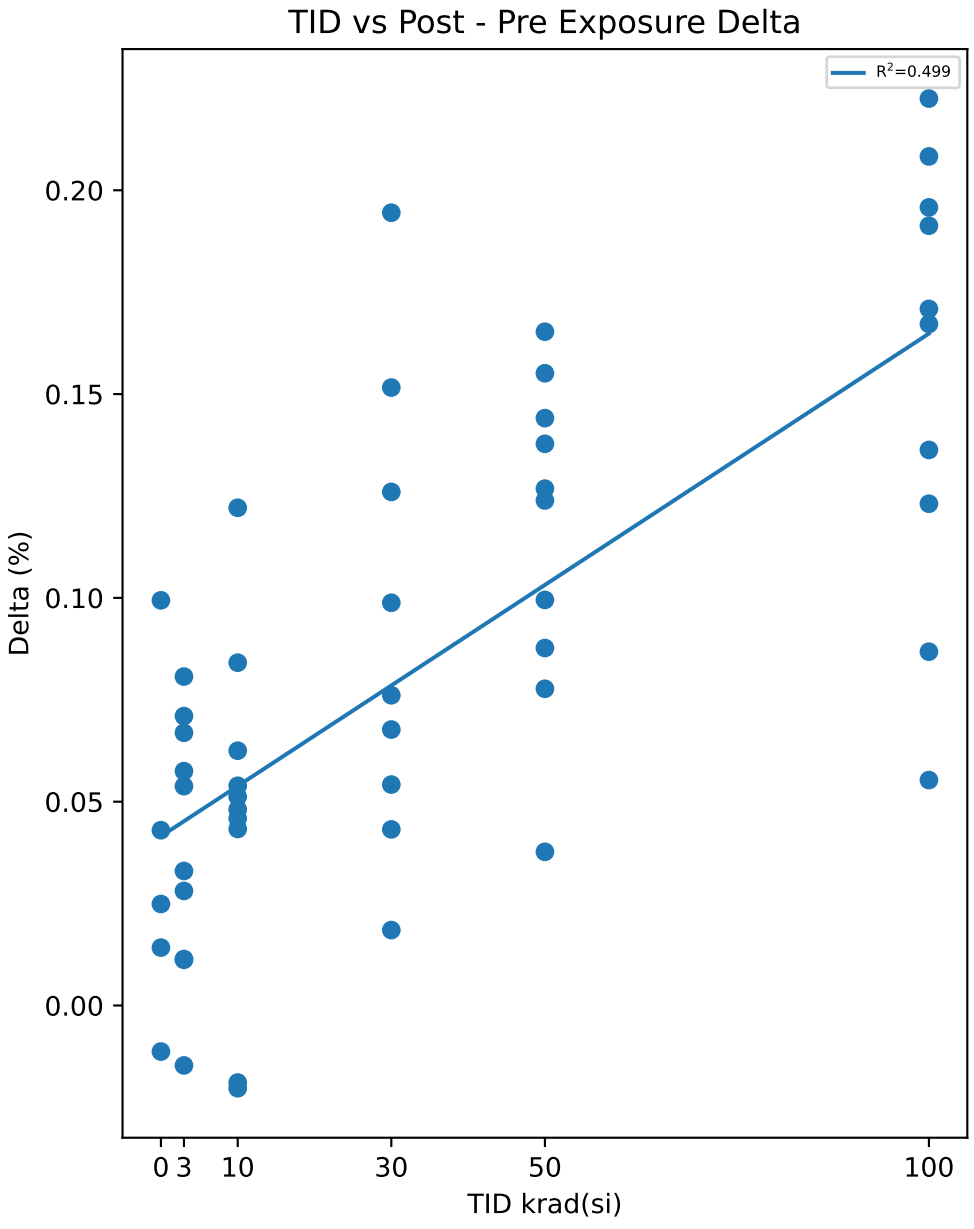
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	45.683	45.822	46.008	0.12431	45.674	45.828	46.04	0.14179	-0.0091	0.00602	0.0316	0.019154
3	45.645	45.864	46.041	0.10663	45.689	45.885	46.072	0.10188	-0.0203	0.02096	0.0535	0.025798
10	45.743	45.92	46.057	0.10737	45.797	45.959	46.089	0.10417	0.0088	0.03894	0.0791	0.025981
30	45.617	45.839	46.02	0.14328	45.71	45.854	45.99	0.10517	-0.0535	0.014622	0.0929	0.057287
50	45.724	45.858	45.956	0.075093	45.827	45.914	46.036	0.0697	-0.052	0.05641	0.1033	0.049909
100	45.713	45.805	46.015	0.089367	45.741	45.901	46.066	0.10037	-0.0078	0.09621	0.1876	0.061099

Device Test: 27.47 LEVEL|DCL/OUT/8/8/0/0/5/500kHz//@MAX_DCL_50

TID vs Result Stats



TID vs Post - Pre Exposure Delta



Test Results (Lower Limit = 42.0, Upper Limit = 50.0 (%))

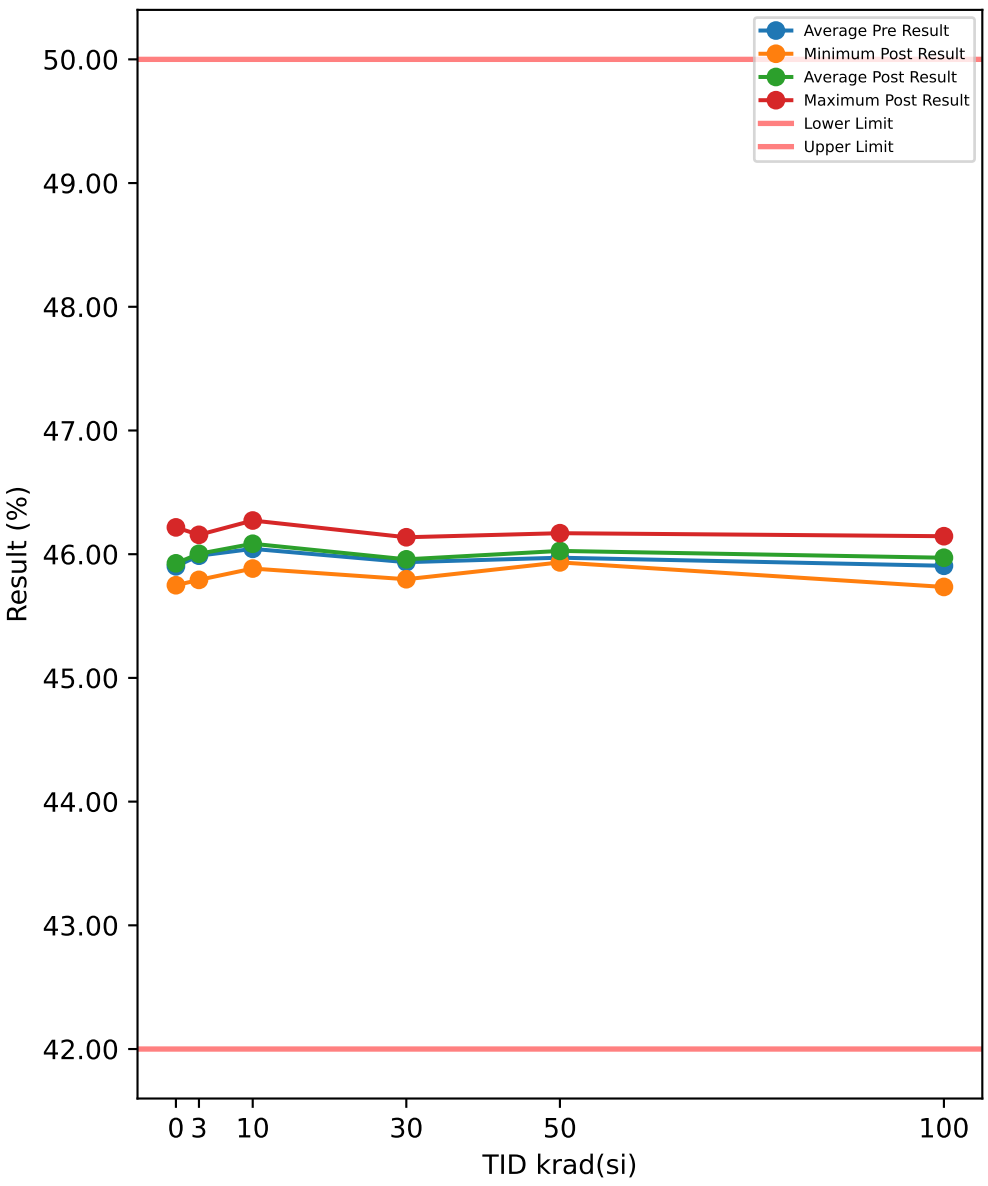
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	45.692	45.816	0.1239
411	100	Unbiased	45.766	45.902	0.1363
444	30	Unbiased	45.678	45.745	0.0677
454	10	Unbiased	45.764	45.807	0.0433
491	3	Unbiased	45.8	45.833	0.033
500	100	Unbiased	45.566	45.653	0.0868
534	100	Biased	45.637	45.76	0.1231
558	0	Correlation	45.549	45.563	0.0142
563	100	Biased	45.64	45.696	0.0553
570	3	Unbiased	45.701	45.781	0.0807
614	10	Unbiased	45.585	45.631	0.0459
675	3	Biased	45.64	45.668	0.0281
713	100	Unbiased	45.693	45.864	0.1709
744	50	Biased	45.731	45.769	0.0377
799	50	Biased	45.723	45.878	0.1551
842	30	Unbiased	45.744	45.87	0.126
889	3	Unbiased	45.752	45.764	0.0112
901	3	Biased	45.602	45.669	0.0669
930	50	Unbiased	45.644	45.809	0.1653
968	100	Unbiased	45.546	45.713	0.1672
976	100	Unbiased	45.549	45.771	0.2225
981	3	Biased	45.562	45.616	0.0538
1003	10	Biased	45.834	45.888	0.0539
1039	3	Biased	45.687	45.699	0.0114
1053	100	Biased	45.594	45.79	0.1958
1056	0	Correlation	45.711	45.699	-0.0113
1072	10	Biased	45.827	45.89	0.0625
1095	50	Unbiased	45.729	45.807	0.0777
1099	0	Correlation	45.598	45.697	0.0994
1113	3	Biased	45.718	45.703	-0.0147
1142	10	Unbiased	45.593	45.573	-0.0203
1154	10	Biased	45.723	45.775	0.0512
1215	50	Unbiased	45.632	45.776	0.1441
1222	100	Biased	45.678	45.869	0.1913
1229	50	Unbiased	45.697	45.834	0.1378
1255	3	Unbiased	45.744	45.802	0.0575
1331	30	Unbiased	45.461	45.612	0.1516
1359	30	Biased	45.552	45.595	0.0432
1375	30	Unbiased	45.765	45.819	0.0542
1398	30	Biased	45.794	45.813	0.0185
1411	50	Biased	45.587	45.686	0.0995
1465	10	Unbiased	45.712	45.834	0.1221
1474	50	Biased	45.596	45.683	0.0877
1504	50	Biased	45.669	45.796	0.1268
1540	100	Biased	45.516	45.725	0.2083
1554	3	Unbiased	45.658	45.729	0.071
1662	30	Biased	45.523	45.599	0.0761
1679	10	Biased	45.706	45.687	-0.0189
1697	10	Biased	45.795	45.879	0.0841
1703	30	Biased	45.735	45.834	0.0988
1704	10	Unbiased	45.688	45.736	0.0481
1736	30	Biased	45.631	45.825	0.1945
1737	0	Correlation	45.839	45.882	0.043
1748	0	Correlation	45.536	45.561	0.0249

Test Statistics (%)

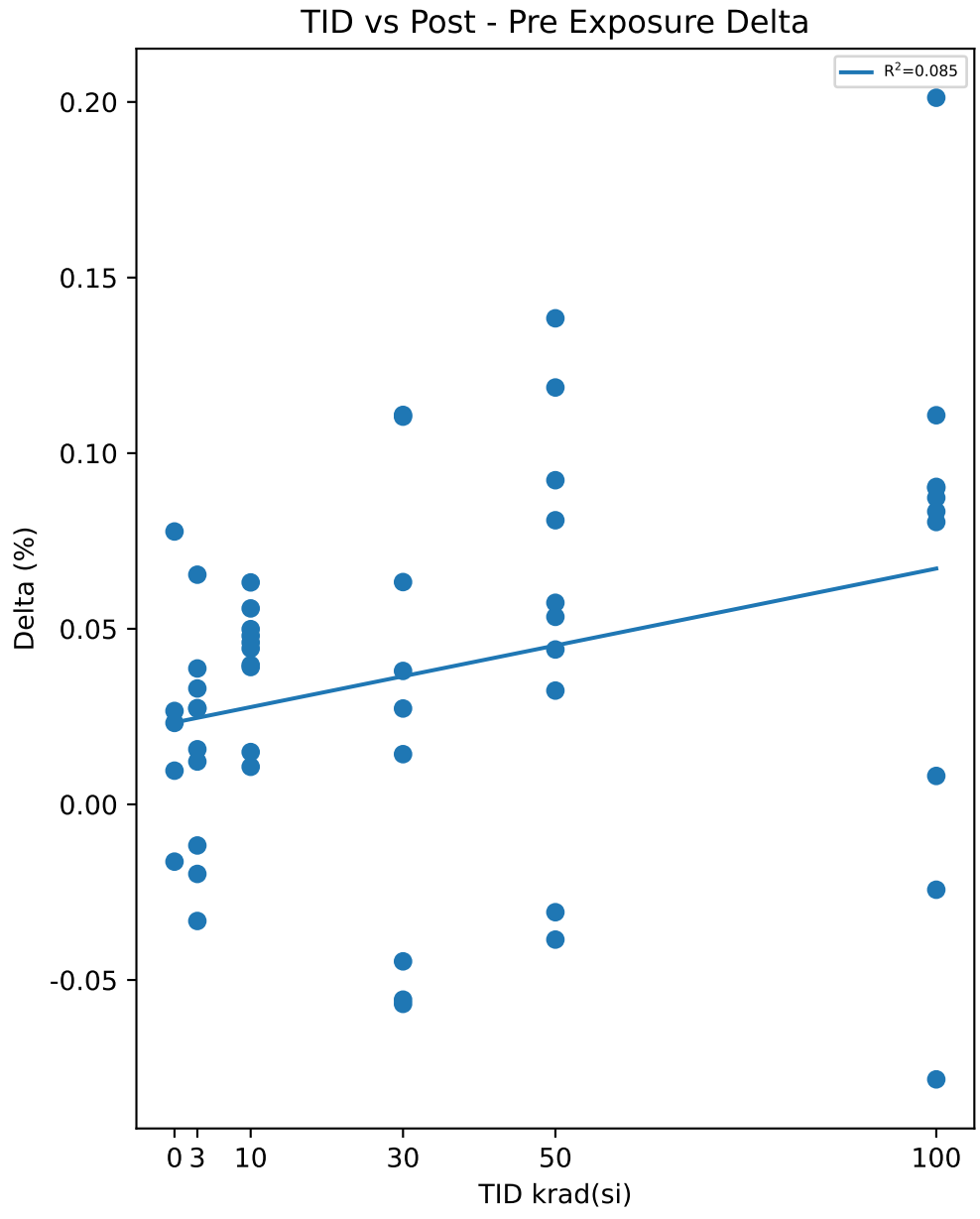
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	45.536	45.647	45.839	0.12755	45.561	45.681	45.882	0.13146	-0.0113	0.03404	0.0994	0.041488
3	45.562	45.687	45.8	0.07254	45.616	45.726	45.833	0.068058	-0.0147	0.03989	0.0807	0.031034
10	45.585	45.723	45.834	0.086644	45.573	45.77	45.89	0.11151	-0.0203	0.04719	0.1221	0.042439
30	45.461	45.654	45.794	0.11856	45.595	45.746	45.87	0.11247	0.0185	0.092289	0.1945	0.056254
50	45.587	45.67	45.731	0.053555	45.683	45.786	45.878	0.061192	0.0377	0.11556	0.1653	0.039542
100	45.516	45.619	45.766	0.078509	45.653	45.774	45.902	0.082324	0.0553	0.15575	0.2225	0.054502

Device Test: 27.48 LEVEL|WRST_MAX/OUT/8/8/0/0/5/100kHz//@MAX_DCL_50

TID vs Result Stats



TID vs Post - Pre Exposure Delta



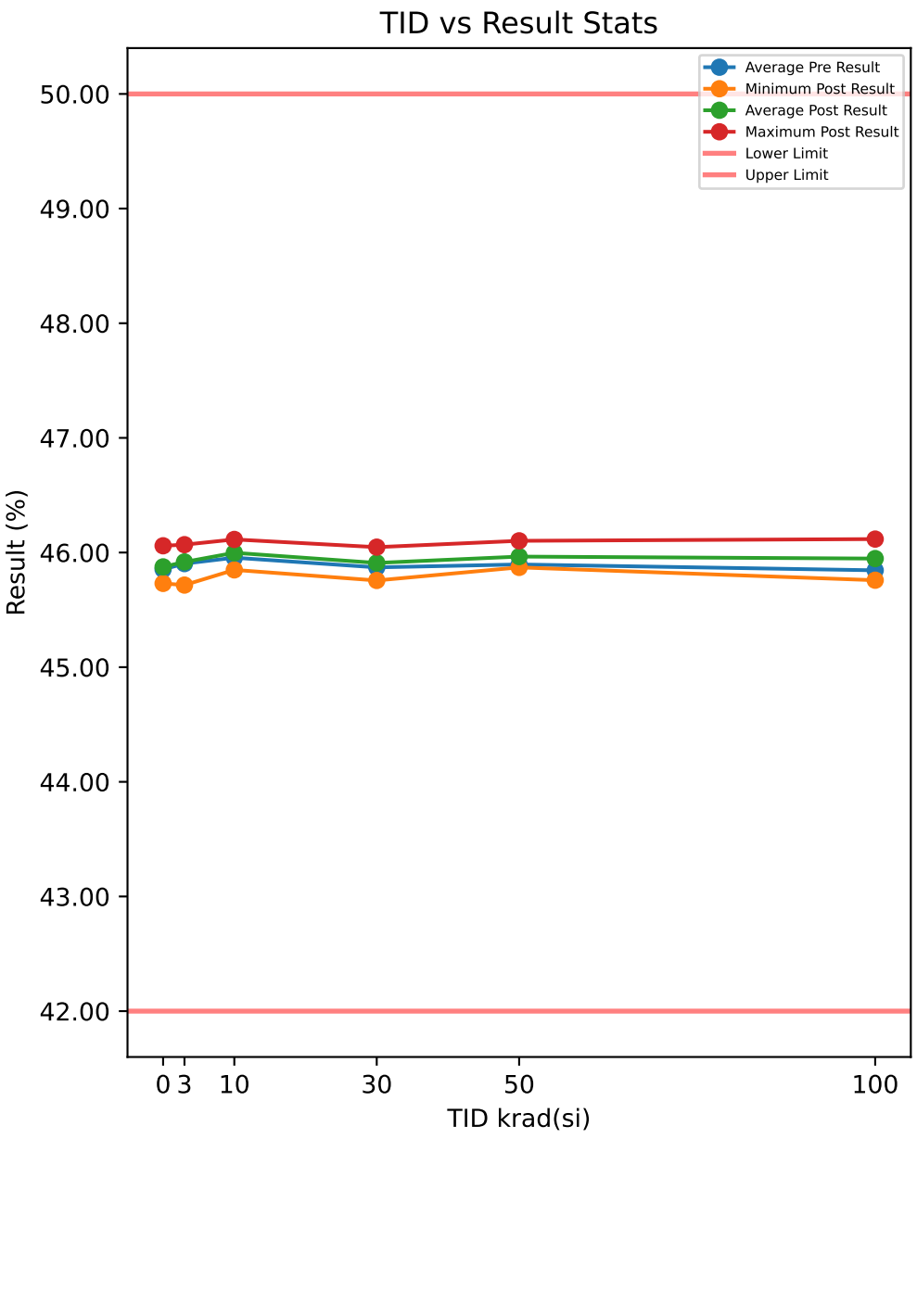
Test Results (Lower Limit = 42.0, Upper Limit = 50.0 (%))

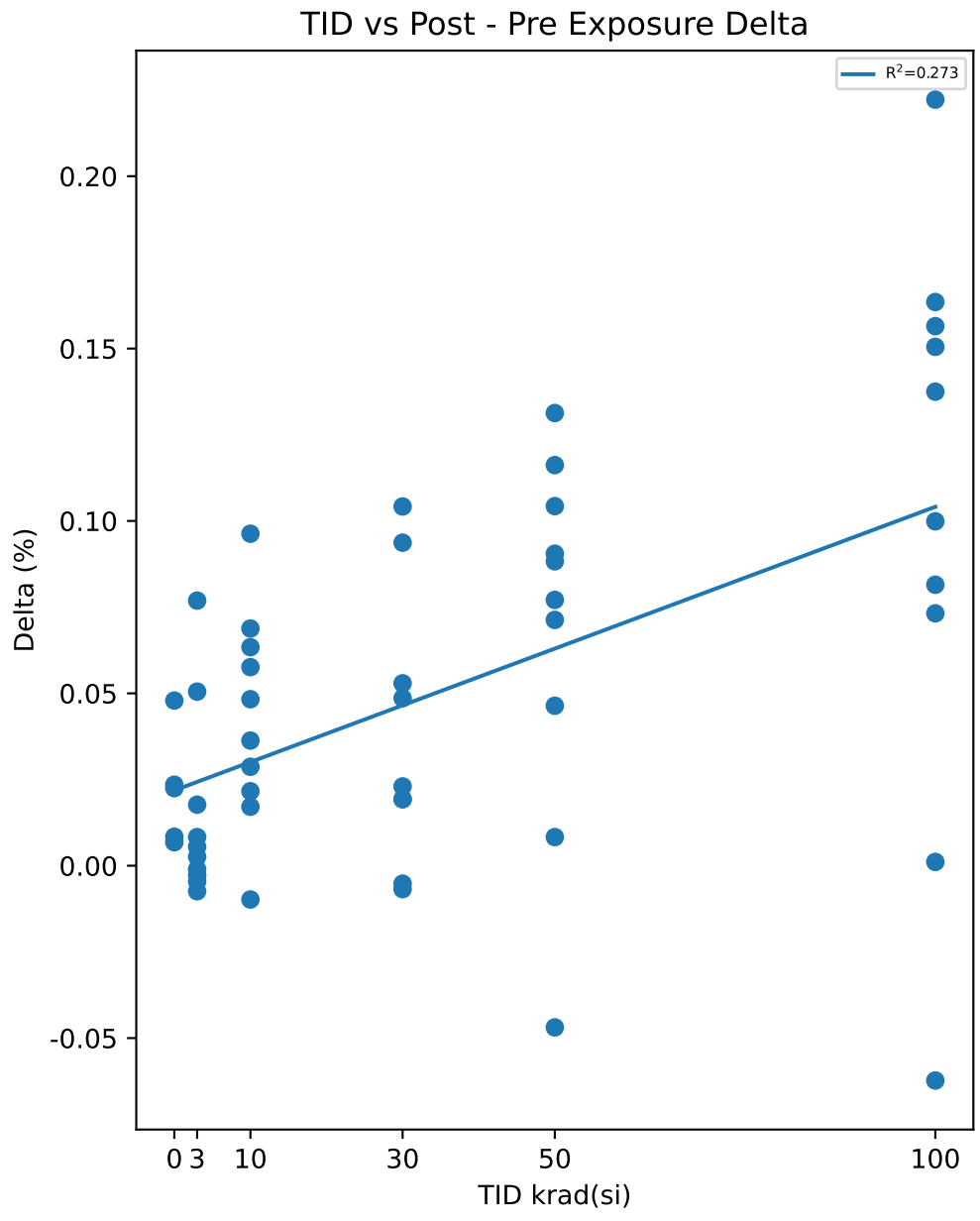
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	45.951	46.069	0.1187
411	100	Unbiased	46.17	46.145	-0.0243
444	30	Unbiased	45.895	45.922	0.0273
454	10	Unbiased	46.149	46.189	0.0397
491	3	Unbiased	46.168	46.157	-0.0117
500	100	Unbiased	45.815	45.823	0.0081
534	100	Biased	45.951	46.041	0.0901
558	0	Correlation	45.786	45.813	0.0266
563	100	Biased	45.814	45.735	-0.0783
570	3	Unbiased	46.125	46.092	-0.0332
614	10	Unbiased	45.821	45.884	0.0632
675	3	Biased	45.843	45.882	0.0387
713	100	Unbiased	45.928	46.011	0.0834
744	50	Biased	46.062	46.094	0.0324
799	50	Biased	46.057	46.102	0.0441
842	30	Unbiased	46.074	46.137	0.0633
889	3	Unbiased	45.986	46.052	0.0654
901	3	Biased	46.015	46.048	0.033
930	50	Unbiased	45.959	46.017	0.0574
968	100	Unbiased	45.938	46.025	0.0873
976	100	Unbiased	45.873	45.984	0.1108
981	3	Biased	45.765	45.792	0.0273
1003	10	Biased	46.228	46.272	0.0444
1039	3	Biased	46.022	46.002	-0.0198
1053	100	Biased	45.812	45.902	0.0904
1056	0	Correlation	45.926	45.949	0.0232
1072	10	Biased	46.067	46.117	0.0499
1095	50	Unbiased	46.031	46.17	0.1384
1099	0	Correlation	45.92	45.904	-0.0163
1113	3	Biased	46	46.016	0.0157
1142	10	Unbiased	45.843	45.889	0.0461
1154	10	Biased	46.107	46.146	0.0391
1215	50	Unbiased	45.871	45.952	0.0809
1222	100	Biased	45.913	45.994	0.0804
1229	50	Unbiased	46.031	45.992	-0.0385
1255	3	Unbiased	46.032	46.059	0.0274
1331	30	Unbiased	45.76	45.798	0.038
1359	30	Biased	45.828	45.938	0.1104
1375	30	Unbiased	45.983	45.938	-0.0447
1398	30	Biased	46.149	46.092	-0.0568
1411	50	Biased	45.841	45.934	0.0923
1465	10	Unbiased	46.104	46.115	0.0107
1474	50	Biased	45.911	45.965	0.0534
1504	50	Biased	46.003	45.972	-0.0307
1540	100	Biased	45.851	46.052	0.2012
1554	3	Unbiased	45.922	45.934	0.0122
1662	30	Biased	45.764	45.875	0.1109
1679	10	Biased	45.885	45.941	0.0558
1697	10	Biased	46.175	46.223	0.048
1703	30	Biased	46.049	45.994	-0.0556
1704	10	Unbiased	46.052	46.067	0.0149
1736	30	Biased	45.918	45.932	0.0143
1737	0	Correlation	46.139	46.217	0.0777
1748	0	Correlation	45.739	45.749	0.0096

Test Statistics (%)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	45.739	45.902	46.139	0.15565	45.749	45.926	46.217	0.18006	-0.0163	0.02416	0.0777	0.03436
3	45.765	45.988	46.168	0.12027	45.792	46.003	46.157	0.10694	-0.0332	0.0155	0.0654	0.029784
10	45.821	46.043	46.228	0.14357	45.884	46.084	46.272	0.13755	0.0107	0.04118	0.0632	0.016606
30	45.76	45.935	46.149	0.13871	45.798	45.959	46.137	0.10412	-0.0568	0.023011	0.1109	0.06561
50	45.841	45.972	46.062	0.078068	45.934	46.027	46.17	0.078085	-0.0385	0.05484	0.1384	0.057542
100	45.812	45.906	46.17	0.10692	45.735	45.971	46.145	0.11981	-0.0783	0.06491	0.2012	0.077991

Device Test: 27.49 LEVEL|WRST_MAX/OUT/8/8/0/0/5/200kHz//@MAX_DCL_50





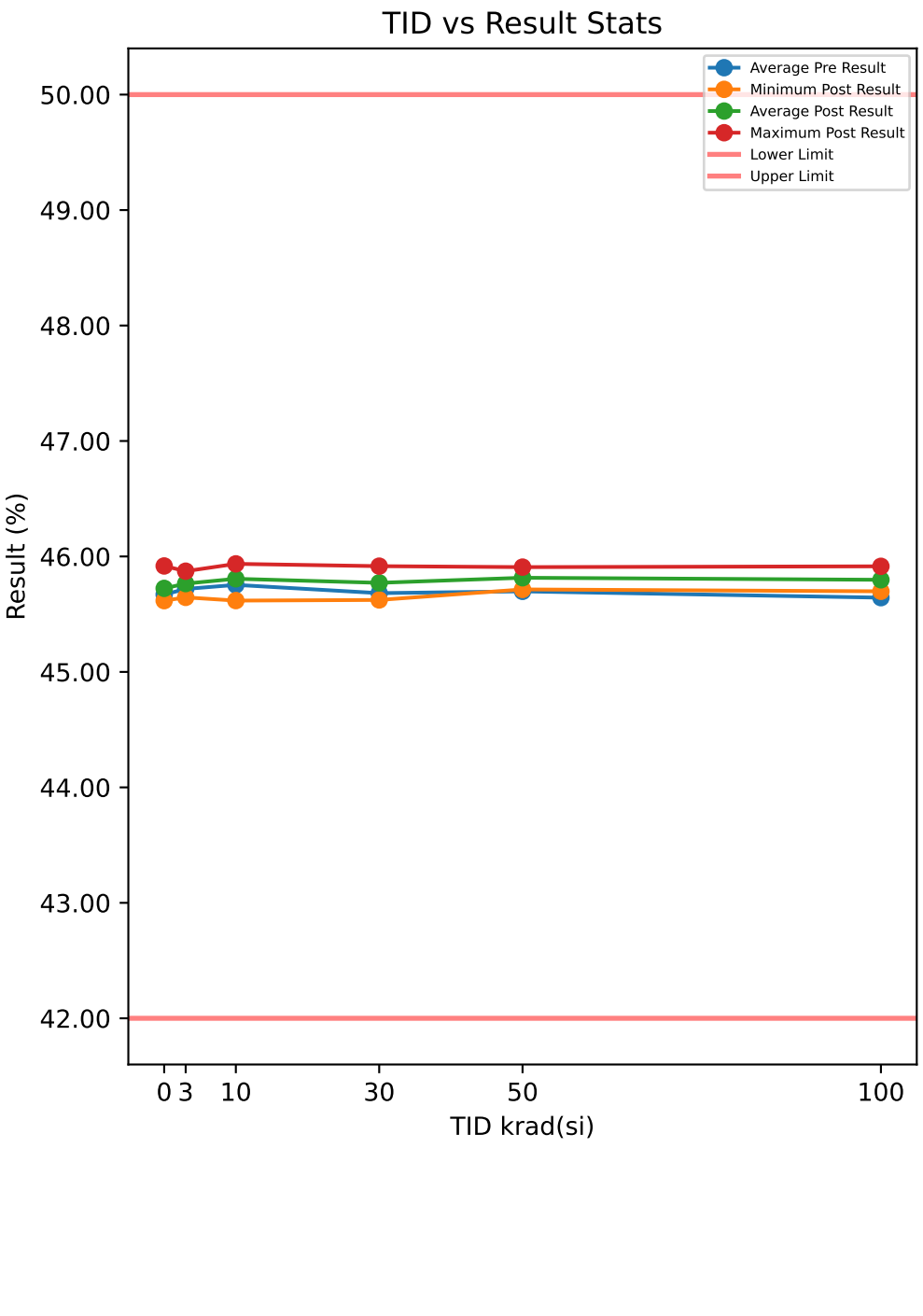
Test Results (Lower Limit = 42.0, Upper Limit = 50.0 (%))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	45.919	45.99	0.0713
411	100	Unbiased	46.036	46.117	0.0815
444	30	Unbiased	45.874	45.868	-0.0068
454	10	Unbiased	46.017	46.086	0.0688
491	3	Unbiased	46.071	46.069	-0.0028
500	100	Unbiased	45.77	45.771	0.0011
534	100	Biased	45.882	46.019	0.1375
558	0	Correlation	45.772	45.794	0.0225
563	100	Biased	45.821	45.758	-0.0623
570	3	Unbiased	45.946	46.023	0.0769
614	10	Unbiased	45.752	45.849	0.0963
675	3	Biased	45.816	45.821	0.0055
713	100	Unbiased	45.875	45.948	0.0732
744	50	Biased	45.992	46	0.0083
799	50	Biased	45.954	46.045	0.0905
842	30	Unbiased	45.998	46.047	0.0486
889	3	Unbiased	45.931	45.933	0.0026
901	3	Biased	45.913	45.911	-0.001
930	50	Unbiased	45.86	45.949	0.0883
968	100	Unbiased	45.841	45.991	0.1505
976	100	Unbiased	45.774	45.996	0.2222
981	3	Biased	45.699	45.716	0.0177
1003	10	Biased	46.078	46.114	0.0363
1039	3	Biased	45.927	45.92	-0.0074
1053	100	Biased	45.785	45.885	0.0999
1056	0	Correlation	45.888	45.912	0.0235
1072	10	Biased	46.021	46.011	-0.0098
1095	50	Unbiased	45.971	46.102	0.1313
1099	0	Correlation	45.831	45.879	0.0479
1113	3	Biased	45.948	45.956	0.0083
1142	10	Unbiased	45.825	45.854	0.0287
1154	10	Biased	46.01	46.067	0.0576
1215	50	Unbiased	45.812	45.917	0.1043
1222	100	Biased	45.88	46.037	0.1565
1229	50	Unbiased	45.902	45.949	0.0464
1255	3	Unbiased	45.958	45.954	-0.0046
1331	30	Unbiased	45.694	45.787	0.0937
1359	30	Biased	45.772	45.792	0.0193
1375	30	Unbiased	45.99	46.013	0.023
1398	30	Biased	46.027	46.022	-0.0052
1411	50	Biased	45.754	45.87	0.1162
1465	10	Unbiased	45.977	46.04	0.0634
1474	50	Biased	45.855	45.933	0.0771
1504	50	Biased	45.939	45.892	-0.0469
1540	100	Biased	45.786	45.95	0.1635
1554	3	Unbiased	45.826	45.876	0.0505
1662	30	Biased	45.703	45.756	0.0529
1679	10	Biased	45.862	45.883	0.0216
1697	10	Biased	46.059	46.107	0.0483
1703	30	Biased	45.953	45.972	0.0193
1704	10	Unbiased	45.949	45.966	0.0171
1736	30	Biased	45.823	45.927	0.1042
1737	0	Correlation	46.052	46.059	0.0068
1748	0	Correlation	45.722	45.731	0.0084

Test Statistics (%)

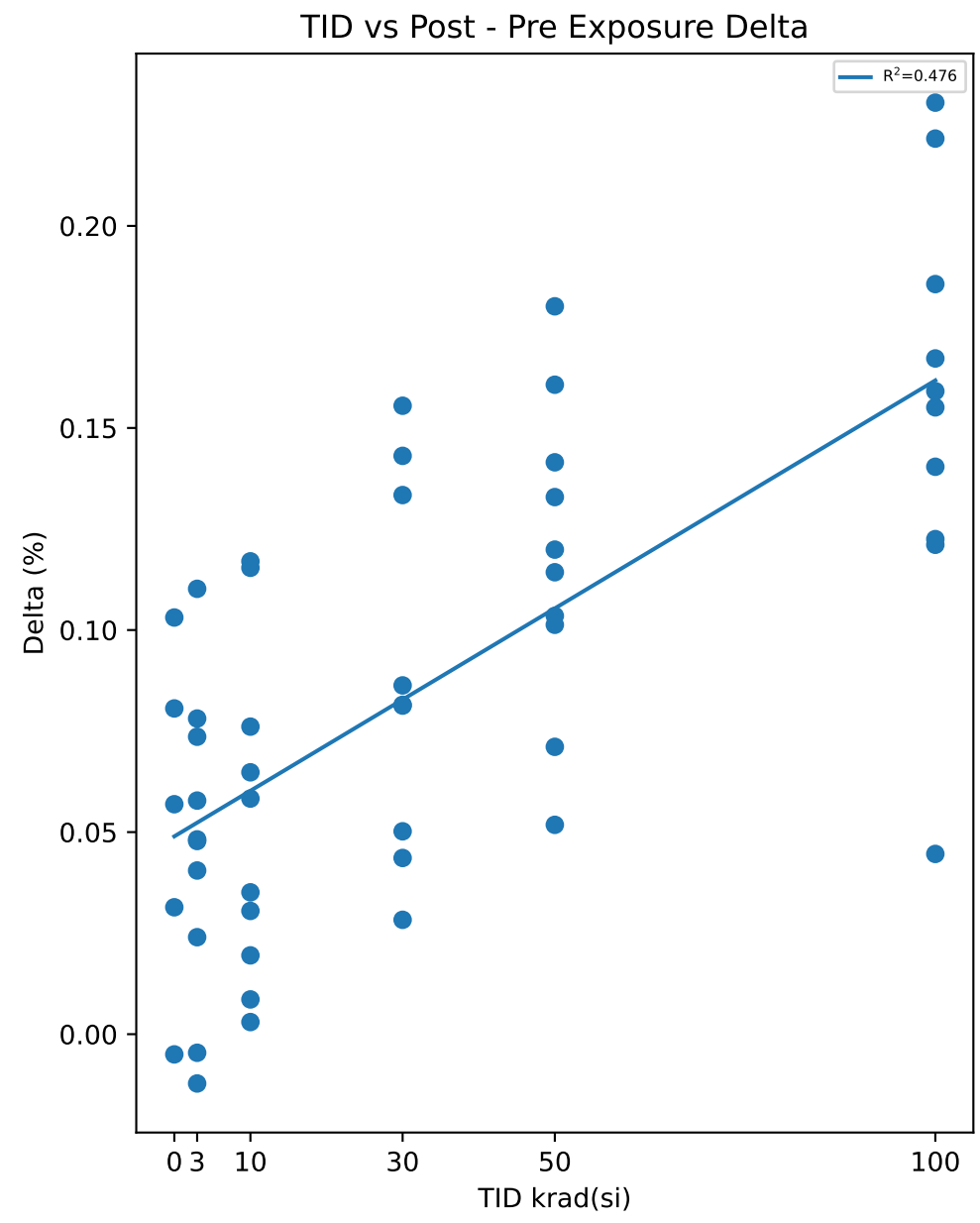
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	45.722	45.853	46.052	0.12752	45.731	45.875	46.059	0.12503	0.0068	0.02182	0.0479	0.016501
3	45.699	45.903	46.071	0.10118	45.716	45.918	46.069	0.099169	-0.0074	0.01457	0.0769	0.027578
10	45.752	45.955	46.078	0.1076	45.849	45.998	46.114	0.10389	-0.0098	0.04283	0.0963	0.030422
30	45.694	45.871	46.027	0.12893	45.756	45.909	46.047	0.11208	-0.0068	0.038778	0.1042	0.039704
50	45.754	45.896	45.992	0.075046	45.87	45.965	46.102	0.070931	-0.0469	0.06868	0.1313	0.053632
100	45.77	45.845	46.036	0.080394	45.758	45.947	46.117	0.11403	-0.0623	0.10236	0.2222	0.083826

Device Test: 27.50 LEVEL|WRST_MAX/OUT/8/8/0/0/5/500kHz//@MAX_DCL_50



Test Results (Lower Limit = 42.0, Upper Limit = 50.0 (%))

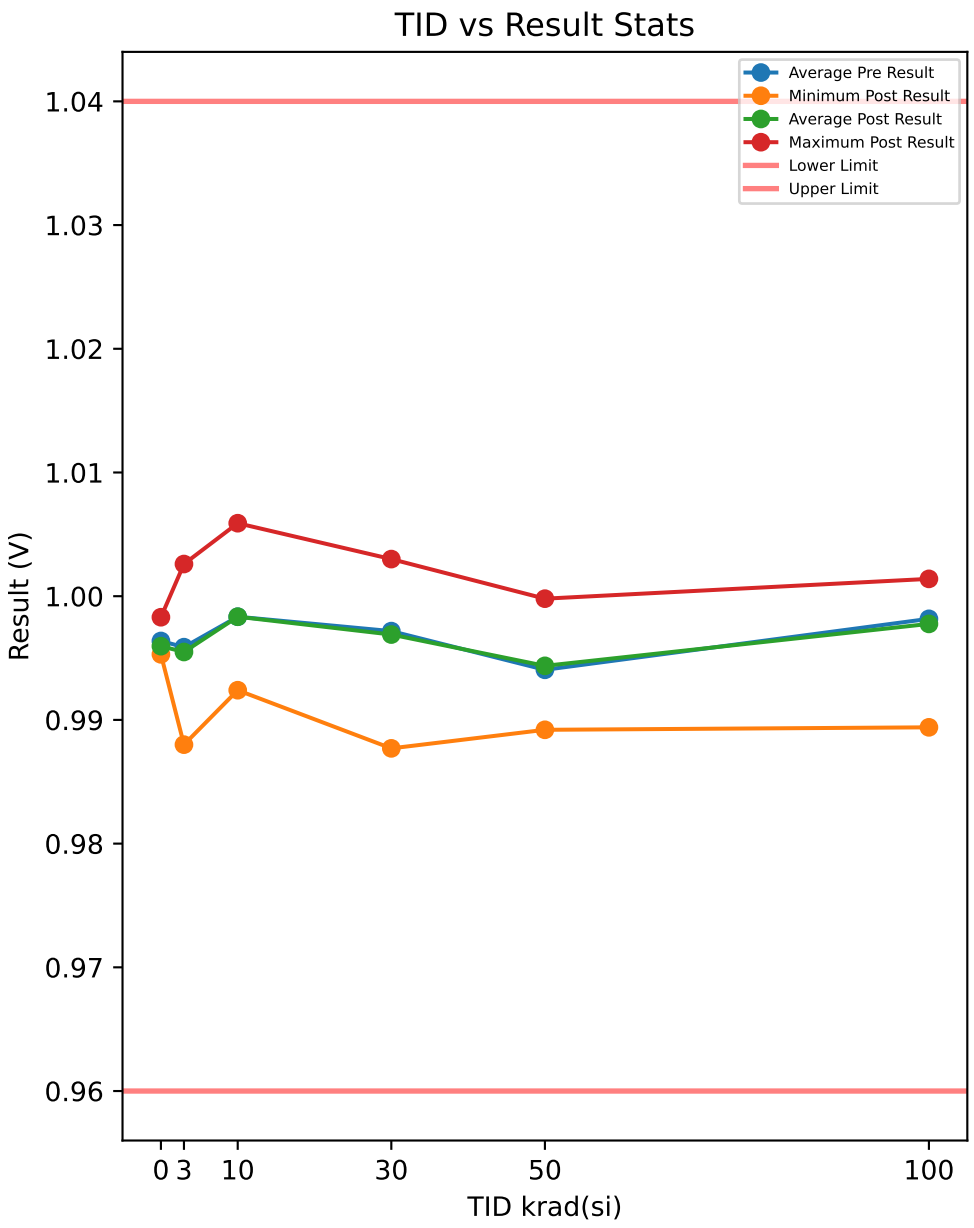
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	45.724	45.843	0.1199
411	100	Unbiased	45.774	45.914	0.1404
444	30	Unbiased	45.703	45.789	0.0863
454	10	Unbiased	45.803	45.833	0.0305
491	3	Unbiased	45.825	45.872	0.0478
500	100	Unbiased	45.576	45.698	0.1225
534	100	Biased	45.662	45.783	0.1211
558	0	Correlation	45.586	45.617	0.0314
563	100	Biased	45.669	45.714	0.0446
570	3	Unbiased	45.748	45.806	0.0578
614	10	Unbiased	45.611	45.67	0.0583
675	3	Biased	45.656	45.704	0.0482
713	100	Unbiased	45.725	45.885	0.1591
744	50	Biased	45.753	45.805	0.0518
799	50	Biased	45.747	45.908	0.1607
842	30	Unbiased	45.782	45.916	0.1334
889	3	Unbiased	45.781	45.805	0.024
901	3	Biased	45.646	45.756	0.1102
930	50	Unbiased	45.672	45.852	0.1801
968	100	Unbiased	45.575	45.73	0.1551
976	100	Unbiased	45.566	45.796	0.2305
981	3	Biased	45.605	45.645	0.0405
1003	10	Biased	45.872	45.892	0.0195
1039	3	Biased	45.739	45.727	-0.0122
1053	100	Biased	45.635	45.802	0.1672
1056	0	Correlation	45.729	45.724	-0.005
1072	10	Biased	45.848	45.913	0.0648
1095	50	Unbiased	45.763	45.834	0.0711
1099	0	Correlation	45.615	45.718	0.1031
1113	3	Biased	45.742	45.737	-0.0046
1142	10	Unbiased	45.609	45.618	0.0086
1154	10	Biased	45.77	45.846	0.0761
1215	50	Unbiased	45.657	45.799	0.1415
1222	100	Biased	45.689	45.91	0.2216
1229	50	Unbiased	45.734	45.849	0.1143
1255	3	Unbiased	45.758	45.832	0.0736
1331	30	Unbiased	45.495	45.639	0.1431
1359	30	Biased	45.573	45.623	0.0502
1375	30	Unbiased	45.778	45.822	0.0436
1398	30	Biased	45.819	45.847	0.0283
1411	50	Biased	45.611	45.714	0.1035
1465	10	Unbiased	45.747	45.863	0.1154
1474	50	Biased	45.629	45.73	0.1013
1504	50	Biased	45.687	45.82	0.1329
1540	100	Biased	45.561	45.746	0.1856
1554	3	Unbiased	45.685	45.763	0.0781
1662	30	Biased	45.544	45.625	0.0815
1679	10	Biased	45.728	45.731	0.003
1697	10	Biased	45.819	45.936	0.117
1703	30	Biased	45.771	45.853	0.0813
1704	10	Unbiased	45.73	45.765	0.0351
1736	30	Biased	45.674	45.83	0.1555
1737	0	Correlation	45.861	45.918	0.0569
1748	0	Correlation	45.56	45.641	0.0806

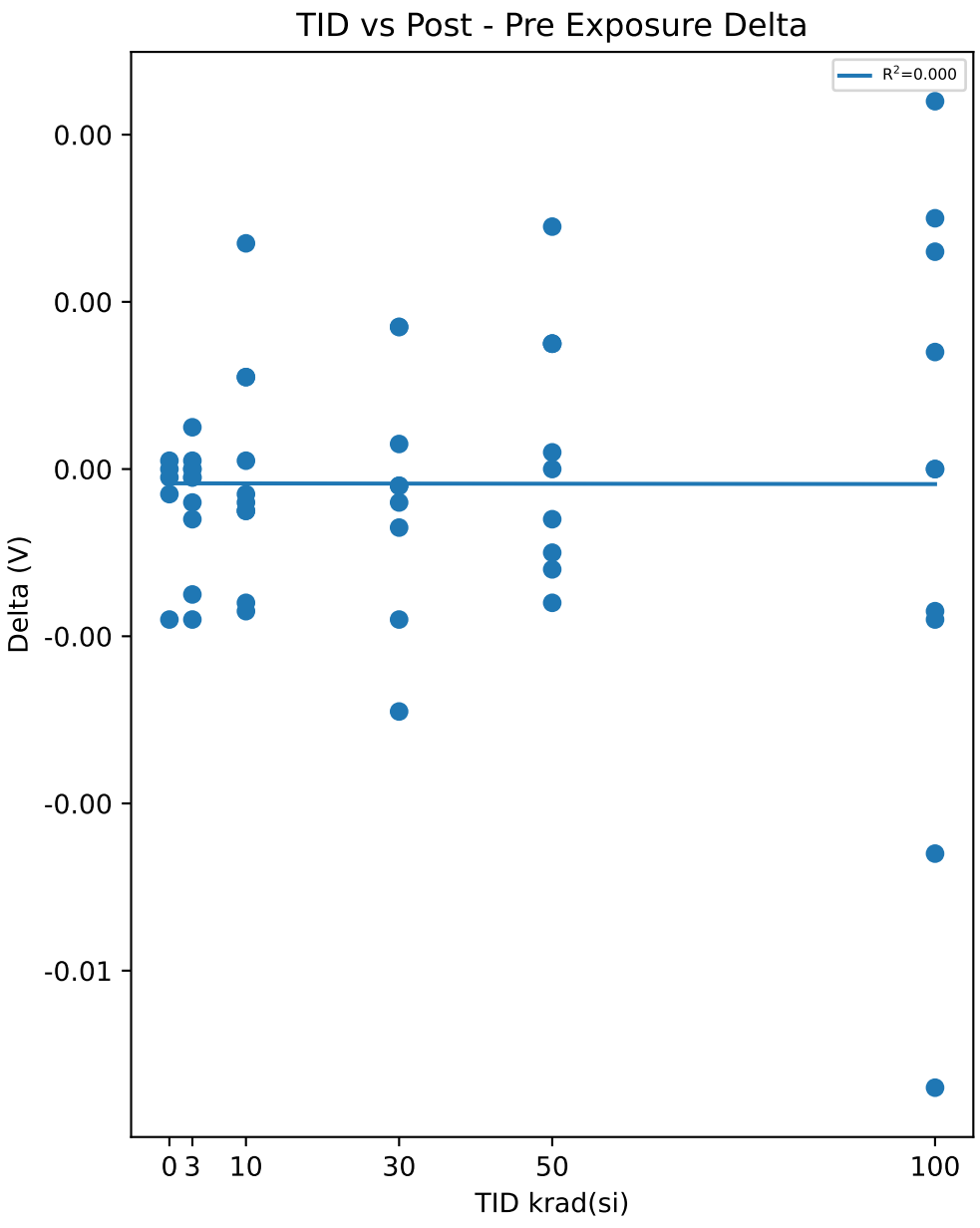


Test Statistics (%)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	45.56	45.67	45.861	0.1245	45.617	45.723	45.918	0.11818	-0.005	0.0534	0.1031	0.04218
3	45.605	45.719	45.825	0.068164	45.645	45.765	45.872	0.066356	-0.0122	0.04634	0.1102	0.0373
10	45.609	45.754	45.872	0.089581	45.618	45.807	45.936	0.10672	0.003	0.05283	0.117	0.040975
30	45.495	45.682	45.819	0.11851	45.623	45.771	45.916	0.11205	0.0283	0.089244	0.1555	0.045681
50	45.611	45.698	45.763	0.054268	45.714	45.815	45.908	0.05773	0.0518	0.11771	0.1801	0.038789
100	45.561	45.643	45.774	0.07397	45.698	45.798	45.914	0.080508	0.0446	0.15477	0.2305	0.053587

Device Test: 28.10 VOLTAGE|OC/CS/14/14/0/0/5/500kHz//@V_CS_ILIM_OC





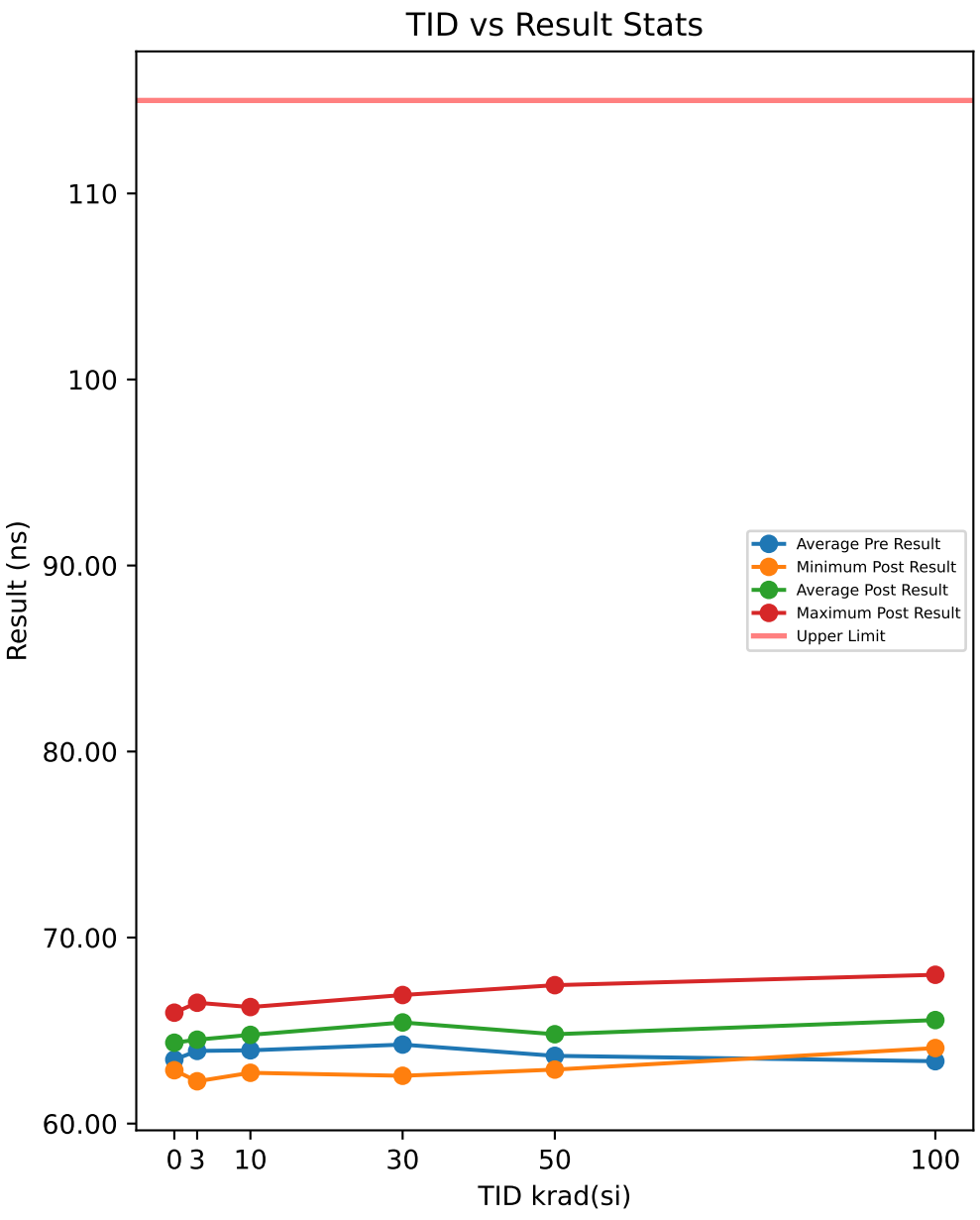
Test Results (Lower Limit = 0.96, Upper Limit = 1.04 (V))

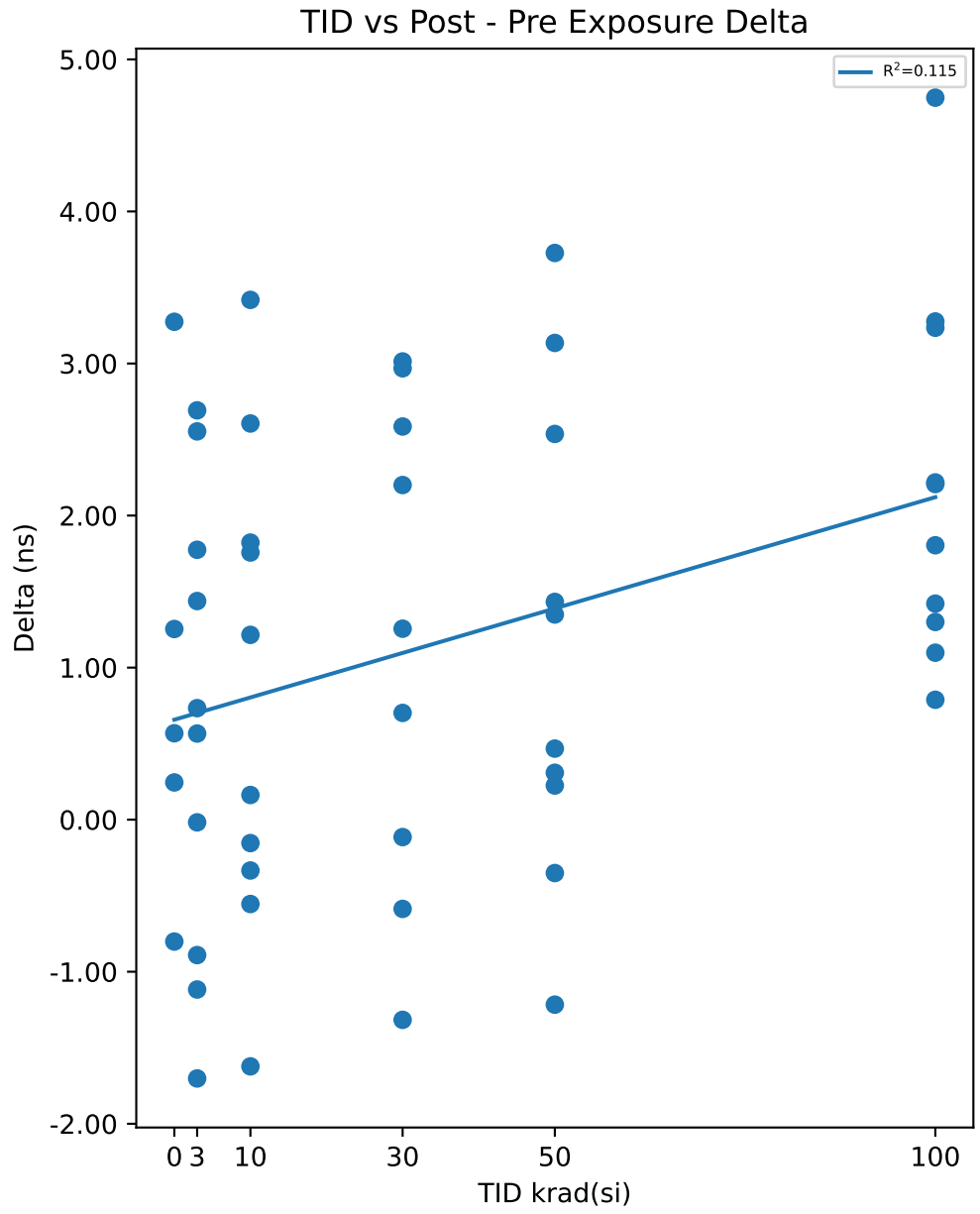
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	0.9939	0.9929	-0.001
411	100	Unbiased	0.9984	0.9998	0.0014
444	30	Unbiased	1.0013	1.003	0.0017
454	10	Unbiased	0.9987	0.9983	-0.0004
491	3	Unbiased	0.9987	0.9983	-0.0004
500	100	Unbiased	0.9911	0.9894	-0.0017
534	100	Biased	0.991	0.9954	0.0044
558	0	Correlation	0.9971	0.9953	-0.0018
563	100	Biased	0.9969	0.9999	0.003
570	3	Unbiased	0.9909	0.9908	-0.0001
614	10	Unbiased	0.9968	0.9952	-0.0016
675	3	Biased	0.9983	0.9982	-0.0001
713	100	Unbiased	1.0029	0.9955	-0.0074
744	50	Biased	0.9877	0.9892	0.0015
799	50	Biased	0.9983	0.9998	0.0015
842	30	Unbiased	1.0033	1.0026	-0.0007
889	3	Unbiased	1	0.9985	-0.0015
901	3	Biased	0.9924	0.9924	0
930	50	Unbiased	0.9968	0.997	0.0002
968	100	Unbiased	0.9983	0.9983	0
976	100	Unbiased	1.006	1.0014	-0.0046
981	3	Biased	1.0044	1.0026	-0.0018
1003	10	Biased	1.0048	1.0059	0.0011
1039	3	Biased	0.9879	0.988	0.0001
1053	100	Biased	0.9999	0.9981	-0.0018
1056	0	Correlation	0.9986	0.9983	-0.0003
1072	10	Biased	0.9926	0.9953	0.0027
1095	50	Unbiased	0.9909	0.9909	0
1099	0	Correlation	0.9954	0.9955	0.0001
1113	3	Biased	0.9909	0.9914	0.0005
1142	10	Unbiased	1.0003	1.0014	0.0011
1154	10	Biased	0.9972	0.9969	-0.0003
1215	50	Unbiased	0.9987	0.9981	-0.0006
1222	100	Biased	0.9988	1.0014	0.0026
1229	50	Unbiased	0.9922	0.991	-0.0012
1255	3	Unbiased	0.9999	0.9999	0
1331	30	Unbiased	0.9895	0.9877	-0.0018
1359	30	Biased	0.9984	0.9955	-0.0029
1375	30	Unbiased	0.9956	0.9954	-0.0002
1398	30	Biased	0.9957	0.9953	-0.0004
1411	50	Biased	0.9971	0.9986	0.0015
1465	10	Unbiased	0.9943	0.9938	-0.0005
1474	50	Biased	0.9954	0.9938	-0.0016
1504	50	Biased	0.9895	0.9924	0.0029
1540	100	Biased	0.9984	0.9984	0
1554	3	Unbiased	0.9954	0.9948	-0.0006
1662	30	Biased	0.9955	0.9958	0.0003
1679	10	Biased	0.9941	0.9924	-0.0017
1697	10	Biased	1.0044	1.0045	0.0001
1703	30	Biased	0.9999	1.0016	0.0017
1704	10	Unbiased	1.0002	0.9997	-0.0005
1736	30	Biased	0.9954	0.9952	-0.0002
1737	0	Correlation	0.9954	0.9953	-0.0001
1748	0	Correlation	0.9954	0.9954	0

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.9954	0.99638	0.9986	0.0014429	0.9953	0.99596	0.9983	0.0013107	-0.0018	-0.00042	0.0001	0.00078549
3	0.9879	0.99588	1.0044	0.0052192	0.988	0.99549	1.0026	0.004704	-0.0018	-0.00039	0.0005	0.00072793
10	0.9926	0.99834	1.0048	0.004174	0.9924	0.99834	1.0059	0.004514	-0.0017	1.1102e-17	0.0027	0.00133
30	0.9895	0.99718	1.0033	0.004077	0.9877	0.9969	1.003	0.0048386	-0.0029	-0.00027778	0.0017	0.0014814
50	0.9877	0.99405	0.9987	0.0038408	0.9892	0.99437	0.9998	0.0037223	-0.0016	0.00032	0.0029	0.0014733
100	0.991	0.99817	1.006	0.0045971	0.9894	0.99776	1.0014	0.0035998	-0.0074	-0.00041	0.0044	0.0036125

Device Test: 28.11 TIMING|DELAY/CS/12/12/0/0/5/100kHz//@CS_ILIM_DELAY





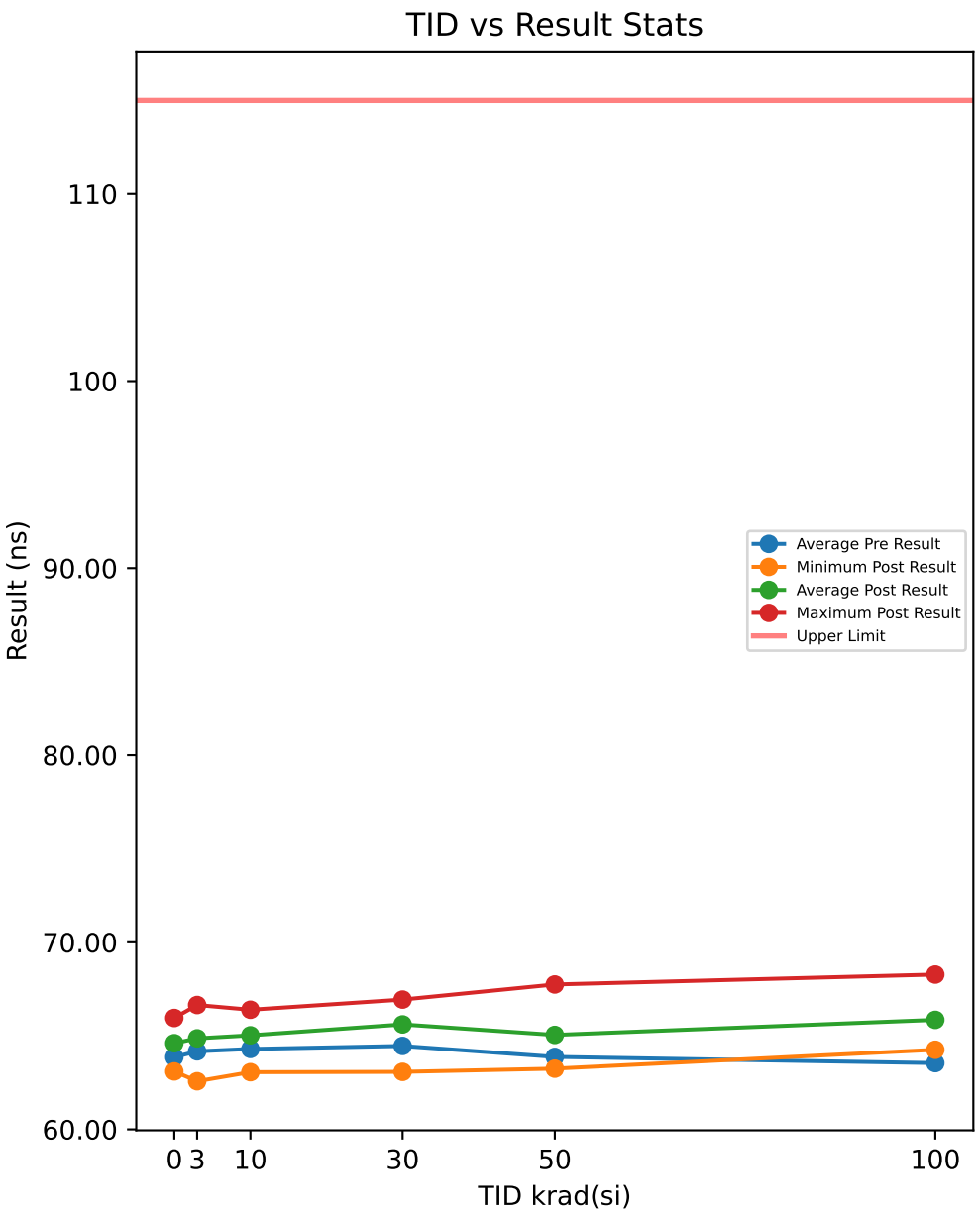
Test Results (Upper Limit = 115.0 (ns))

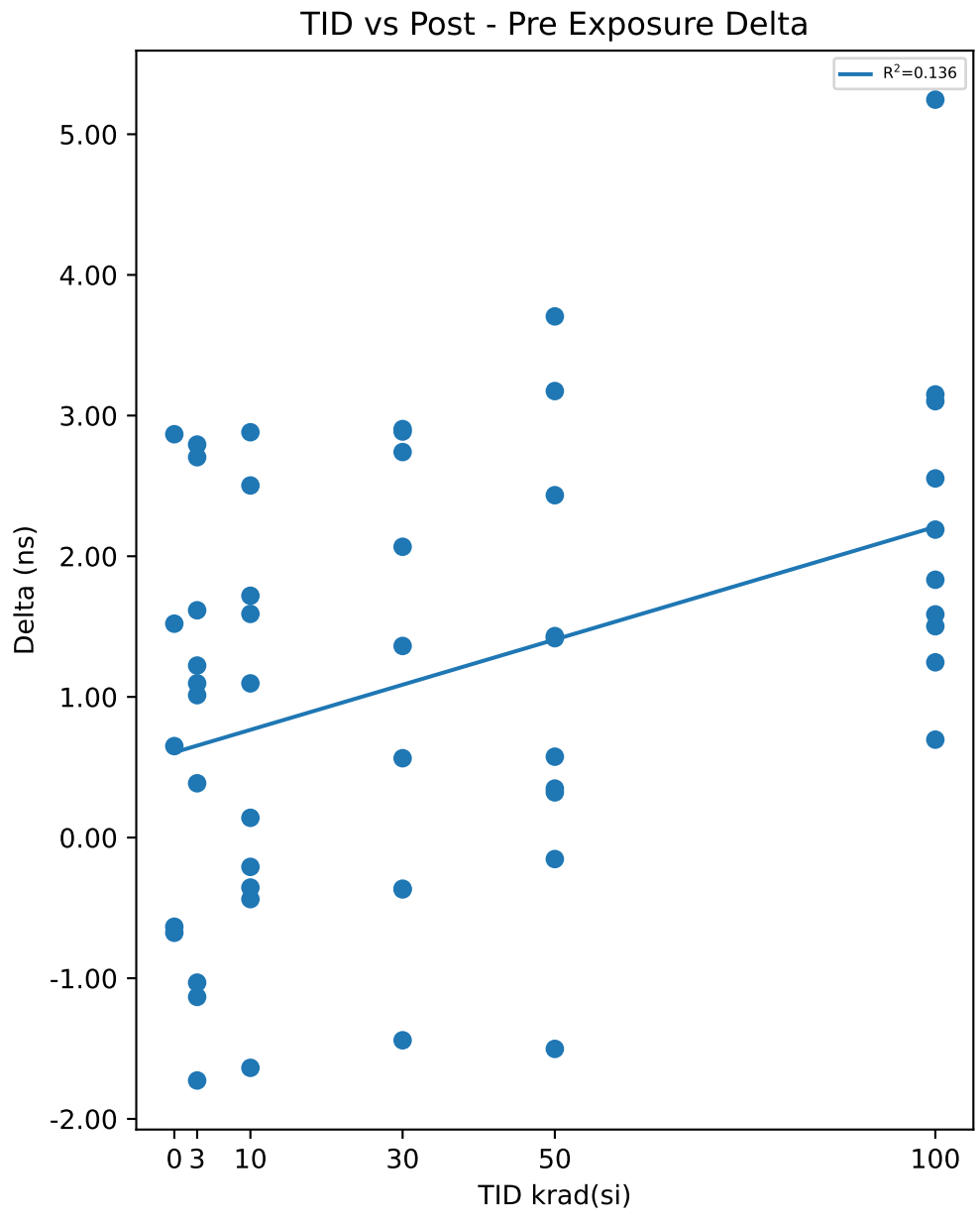
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	63.77	64.079	0.3085
411	100	Unbiased	62.723	66	3.2765
444	30	Unbiased	65.392	66.648	1.2559
454	10	Unbiased	65.057	64.502	-0.5547
491	3	Unbiased	62.926	64.364	1.4378
500	100	Unbiased	63.428	64.728	1.3002
534	100	Biased	64.12	64.909	0.7885
558	0	Correlation	63.485	64.053	0.5682
563	100	Biased	64.323	67.558	3.2351
570	3	Unbiased	63.513	66.067	2.5536
614	10	Unbiased	63.659	66.264	2.6055
675	3	Biased	63.227	63.209	-0.0177
713	100	Unbiased	63.178	64.983	1.8047
744	50	Biased	62.839	64.271	1.4323
799	50	Biased	64.305	67.441	3.1353
842	30	Unbiased	63.886	66.472	2.5857
889	3	Unbiased	63.482	62.365	-1.117
901	3	Biased	64.565	65.299	0.7335
930	50	Unbiased	62.222	65.949	3.727
968	100	Unbiased	62.962	64.06	1.0981
976	100	Unbiased	63.781	65.999	2.2179
981	3	Biased	64.721	66.496	1.775
1003	10	Biased	62.856	64.071	1.2154
1039	3	Biased	63.976	62.274	-1.702
1053	100	Biased	62.948	64.369	1.4207
1056	0	Correlation	64.44	63.639	-0.8016
1072	10	Biased	63.969	65.792	1.8222
1095	50	Unbiased	64.016	64.24	0.2246
1099	0	Correlation	62.687	65.962	3.2744
1113	3	Biased	64.221	63.331	-0.8906
1142	10	Unbiased	64.996	64.662	-0.3343
1154	10	Biased	65.968	64.345	-1.6225
1215	50	Unbiased	64.415	63.198	-1.2166
1222	100	Biased	63.251	67.999	4.7483
1229	50	Unbiased	63.154	65.691	2.5368
1255	3	Unbiased	64.698	65.264	0.5664
1331	30	Unbiased	63.615	65.816	2.2008
1359	30	Biased	65.033	63.716	-1.3165
1375	30	Unbiased	65.166	65.868	0.7021
1398	30	Biased	64.449	64.335	-0.1145
1411	50	Biased	62.435	62.902	0.4674
1465	10	Unbiased	62.446	65.864	3.4185
1474	50	Biased	64.706	64.355	-0.3511
1504	50	Biased	64.559	65.908	1.3493
1540	100	Biased	62.83	65.037	2.2072
1554	3	Unbiased	63.739	66.431	2.6919
1662	30	Biased	63.157	62.57	-0.5868
1679	10	Biased	64.109	63.955	-0.154
1697	10	Biased	63.753	65.51	1.757
1703	30	Biased	63.898	66.911	3.0135
1704	10	Unbiased	62.568	62.731	0.1623
1736	30	Biased	63.623	66.591	2.9685
1737	0	Correlation	63.958	65.212	1.2539
1748	0	Correlation	62.623	62.868	0.2448

Test Statistics (ns)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	62.623	63.439	64.44	0.79121	62.868	64.347	65.962	1.238	-0.8016	0.90794	3.2744	1.5164
3	62.926	63.907	64.721	0.63359	62.274	64.51	66.496	1.6314	-1.702	0.60309	2.6919	1.5328
10	62.446	63.938	65.968	1.1503	62.731	64.77	66.264	1.0851	-1.6225	0.83154	3.4185	1.5828
30	63.157	64.247	65.392	0.79399	62.57	65.436	66.911	1.5318	-1.3165	1.1899	3.0135	1.6141
50	62.222	63.642	64.706	0.91433	62.902	64.803	67.441	1.4061	-1.2166	1.1614	3.727	1.5814
100	62.723	63.354	64.323	0.55241	64.06	65.564	67.999	1.3215	0.7885	2.2097	4.7483	1.2249

Device Test: 28.12 TIMING|DELAY/CS/14/14/0/0/5/100kHz//@CS_ILIM_DELAY





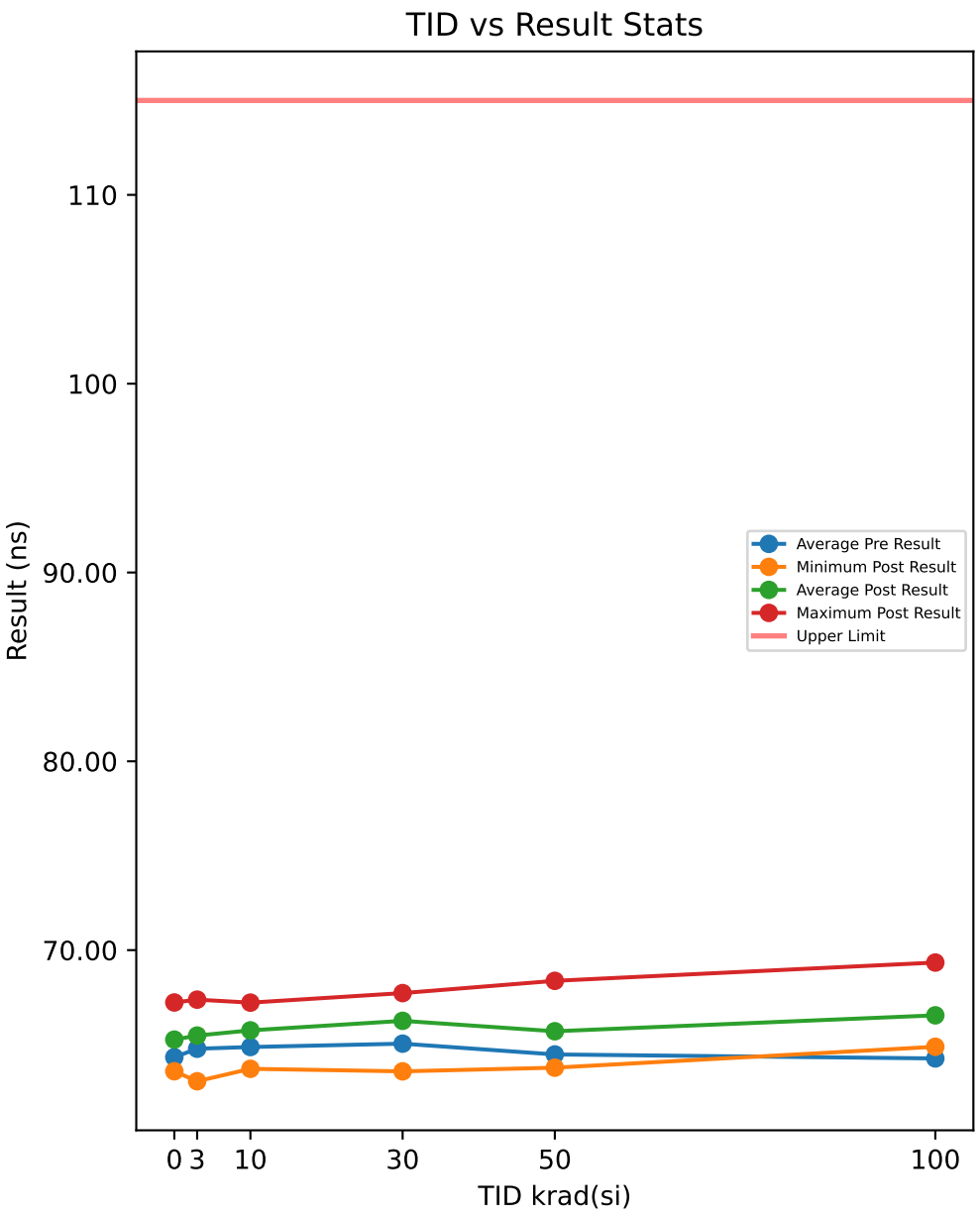
Test Results (Upper Limit = 115.0 (ns))

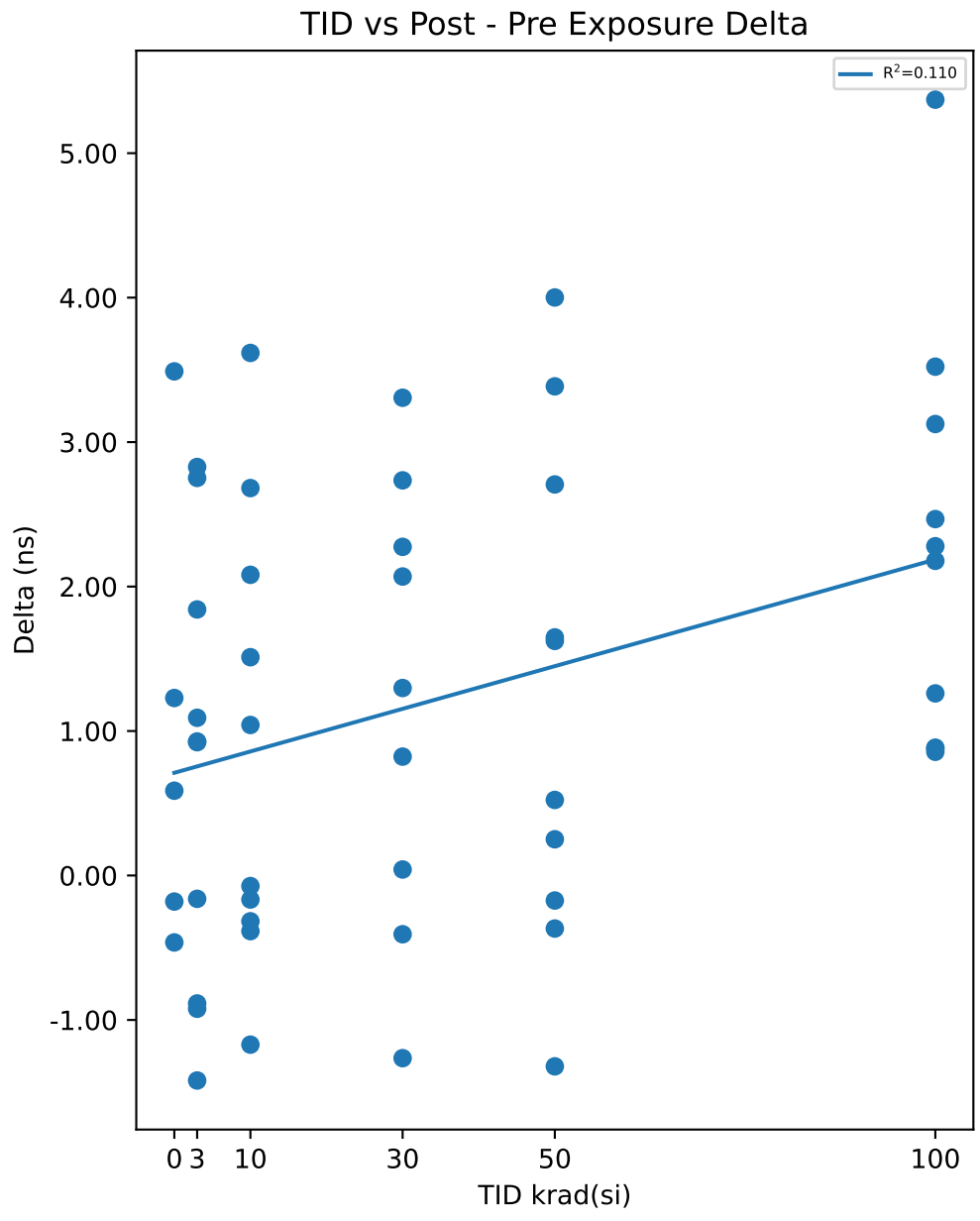
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	64.051	64.372	0.3212
411	100	Unbiased	63.212	66.363	3.1503
444	30	Unbiased	65.558	66.92	1.3621
454	10	Unbiased	65.174	64.966	-0.2083
491	3	Unbiased	63.709	64.806	1.0967
500	100	Unbiased	63.522	65.025	1.5025
534	100	Biased	64.575	65.271	0.6961
558	0	Correlation	63.692	64.343	0.6502
563	100	Biased	64.576	67.679	3.1024
570	3	Unbiased	63.666	66.459	2.7939
614	10	Unbiased	63.892	66.394	2.5029
675	3	Biased	63.094	63.48	0.3859
713	100	Unbiased	63.499	65.332	1.8327
744	50	Biased	63.074	64.506	1.4323
799	50	Biased	64.572	67.746	3.1742
842	30	Unbiased	63.781	66.521	2.7407
889	3	Unbiased	63.785	62.754	-1.0312
901	3	Biased	64.746	65.969	1.2228
930	50	Unbiased	62.469	66.174	3.7049
968	100	Unbiased	62.668	64.255	1.5866
976	100	Unbiased	64.164	66.353	2.1892
981	3	Biased	65.012	66.628	1.6157
1003	10	Biased	63.47	64.566	1.0961
1039	3	Biased	64.299	62.572	-1.727
1053	100	Biased	63.352	64.598	1.2459
1056	0	Correlation	64.644	63.968	-0.6768
1072	10	Biased	64.389	66.109	1.719
1095	50	Unbiased	64.171	64.519	0.3482
1099	0	Correlation	63.087	65.954	2.8673
1113	3	Biased	64.608	63.475	-1.1328
1142	10	Unbiased	65.366	64.928	-0.4375
1154	10	Biased	66.173	64.536	-1.6371
1215	50	Unbiased	64.8	63.298	-1.5023
1222	100	Biased	63.03	68.276	5.2458
1229	50	Unbiased	63.401	65.835	2.4339
1255	3	Unbiased	64.853	65.865	1.0123
1331	30	Unbiased	63.735	65.802	2.0673
1359	30	Biased	65.359	63.918	-1.4411
1375	30	Unbiased	65.414	65.978	0.5641
1398	30	Biased	64.803	64.434	-0.3686
1411	50	Biased	62.671	63.246	0.575
1465	10	Unbiased	63.049	65.931	2.8815
1474	50	Biased	64.827	64.674	-0.1528
1504	50	Biased	64.699	66.116	1.4175
1540	100	Biased	62.828	65.381	2.5531
1554	3	Unbiased	63.944	66.647	2.704
1662	30	Biased	63.438	63.075	-0.3635
1679	10	Biased	64.371	64.016	-0.3554
1697	10	Biased	64.183	65.773	1.5899
1703	30	Biased	64.052	66.938	2.8865
1704	10	Unbiased	62.917	63.058	0.1404
1736	30	Biased	63.997	66.901	2.904
1737	0	Correlation	64.148	65.668	1.5205
1748	0	Correlation	63.732	63.098	-0.6338

Test Statistics (ns)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	63.087	63.861	64.644	0.57888	63.098	64.606	65.954	1.1934	-0.6768	0.74548	2.8673	1.5031
3	63.094	64.171	65.012	0.62721	62.572	64.866	66.647	1.6538	-1.727	0.69403	2.7939	1.5674
10	62.917	64.298	66.173	1.0417	63.058	65.028	66.394	1.0425	-1.6371	0.72915	2.8815	1.4528
30	63.438	64.46	65.558	0.82577	63.075	65.61	66.938	1.4502	-1.4411	1.1502	2.904	1.6264
50	62.469	63.873	64.827	0.90293	63.246	65.049	67.746	1.406	-1.5023	1.1752	3.7049	1.592
100	62.668	63.543	64.576	0.68357	64.255	65.853	68.276	1.3065	0.6961	2.3105	5.2458	1.2982

Device Test: 28.13 TIMING|DELAY/CS/12/12/0/1000/5/100kHz//@CS_ILIM_DELAY





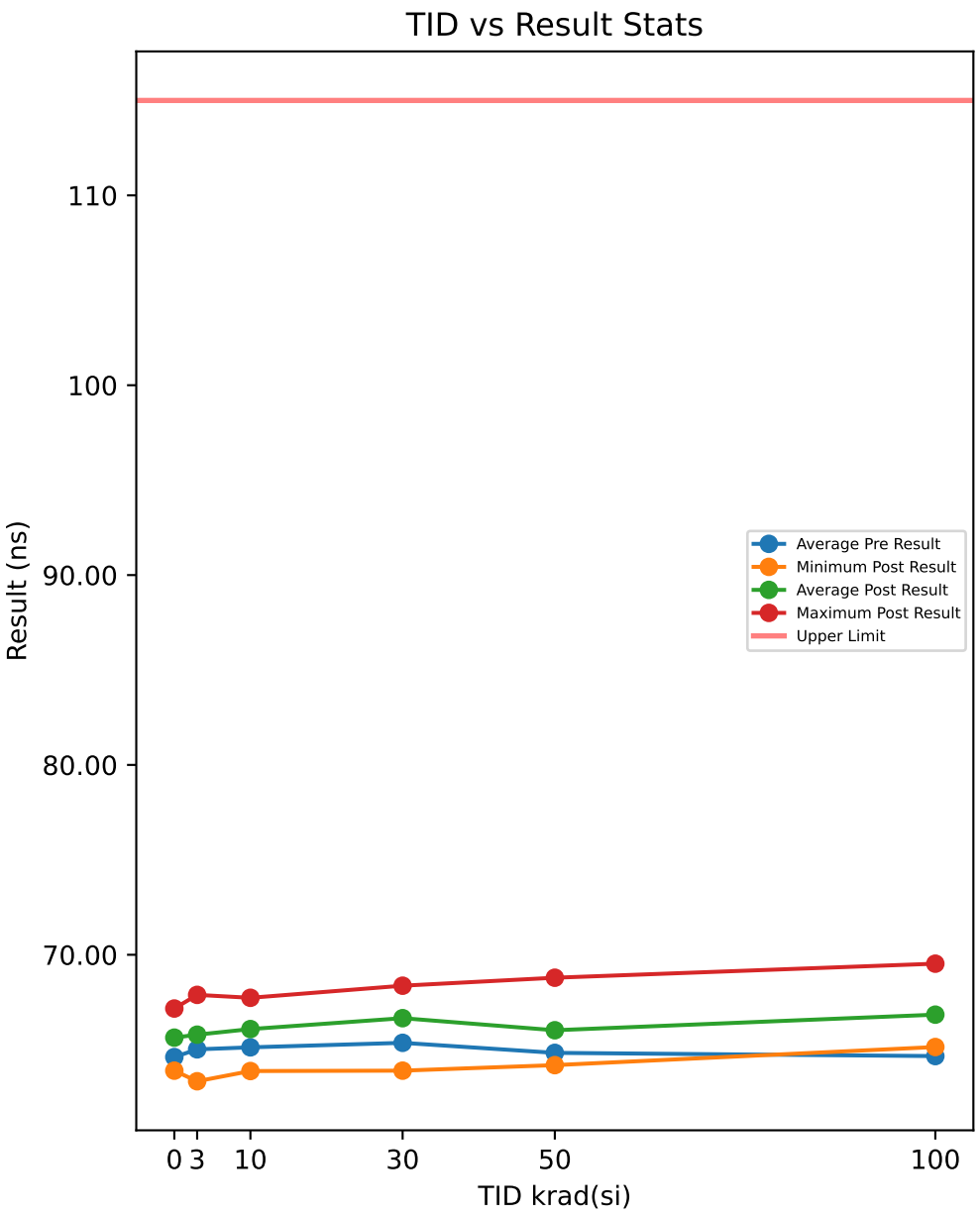
Test Results (Upper Limit = 115.0 (ns))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	64.463	64.714	0.2507
411	100	Unbiased	63.799	66.924	3.125
444	30	Unbiased	66.18	67.478	1.2978
454	10	Unbiased	65.826	65.441	-0.3852
491	3	Unbiased	64.598	65.521	0.9227
500	100	Unbiased	64.821	65.706	0.8847
534	100	Biased	64.813	65.669	0.8562
558	0	Correlation	64.476	65.063	0.5869
563	100	Biased	65.18	68.703	3.5222
570	3	Unbiased	64.35	67.102	2.7522
614	10	Unbiased	64.538	67.219	2.6817
675	3	Biased	64.303	64.141	-0.1615
713	100	Unbiased	64.028	66.206	2.1779
744	50	Biased	63.811	65.459	1.6481
799	50	Biased	64.988	68.374	3.3859
842	30	Unbiased	64.936	67.211	2.2749
889	3	Unbiased	64.222	63.336	-0.8859
901	3	Biased	65.42	66.348	0.9277
930	50	Unbiased	62.862	66.864	4.0011
968	100	Unbiased	63.62	64.881	1.2605
976	100	Unbiased	64.595	66.875	2.2792
981	3	Biased	65.536	67.378	1.8415
1003	10	Biased	64.137	65.178	1.0419
1039	3	Biased	64.474	63.055	-1.4191
1053	100	Biased	64.239	65.119	0.8797
1056	0	Correlation	64.986	64.523	-0.4634
1072	10	Biased	64.775	66.856	2.0814
1095	50	Unbiased	64.772	65.295	0.523
1099	0	Correlation	63.738	67.227	3.4896
1113	3	Biased	65.081	64.158	-0.9225
1142	10	Unbiased	65.857	65.54	-0.3171
1154	10	Biased	66.551	65.38	-1.1709
1215	50	Unbiased	65.162	63.84	-1.3212
1222	100	Biased	63.971	69.342	5.3704
1229	50	Unbiased	63.928	66.634	2.7068
1255	3	Unbiased	65.254	66.346	1.0916
1331	30	Unbiased	64.54	66.609	2.0696
1359	30	Biased	65.686	64.421	-1.2644
1375	30	Unbiased	65.693	66.516	0.8229
1398	30	Biased	65.094	65.135	0.0413
1411	50	Biased	63.947	63.774	-0.1732
1465	10	Unbiased	63.426	67.044	3.6173
1474	50	Biased	65.612	65.245	-0.3672
1504	50	Biased	65.206	66.83	1.6238
1540	100	Biased	63.573	66.04	2.4671
1554	3	Unbiased	64.543	67.371	2.8277
1662	30	Biased	63.987	63.58	-0.4067
1679	10	Biased	64.945	64.779	-0.1663
1697	10	Biased	64.844	66.355	1.511
1703	30	Biased	64.88	67.616	2.7352
1704	10	Unbiased	63.788	63.714	-0.0732
1736	30	Biased	64.418	67.725	3.307
1737	0	Correlation	64.674	65.903	1.2287
1748	0	Correlation	63.766	63.585	-0.1805

Test Statistics (ns)

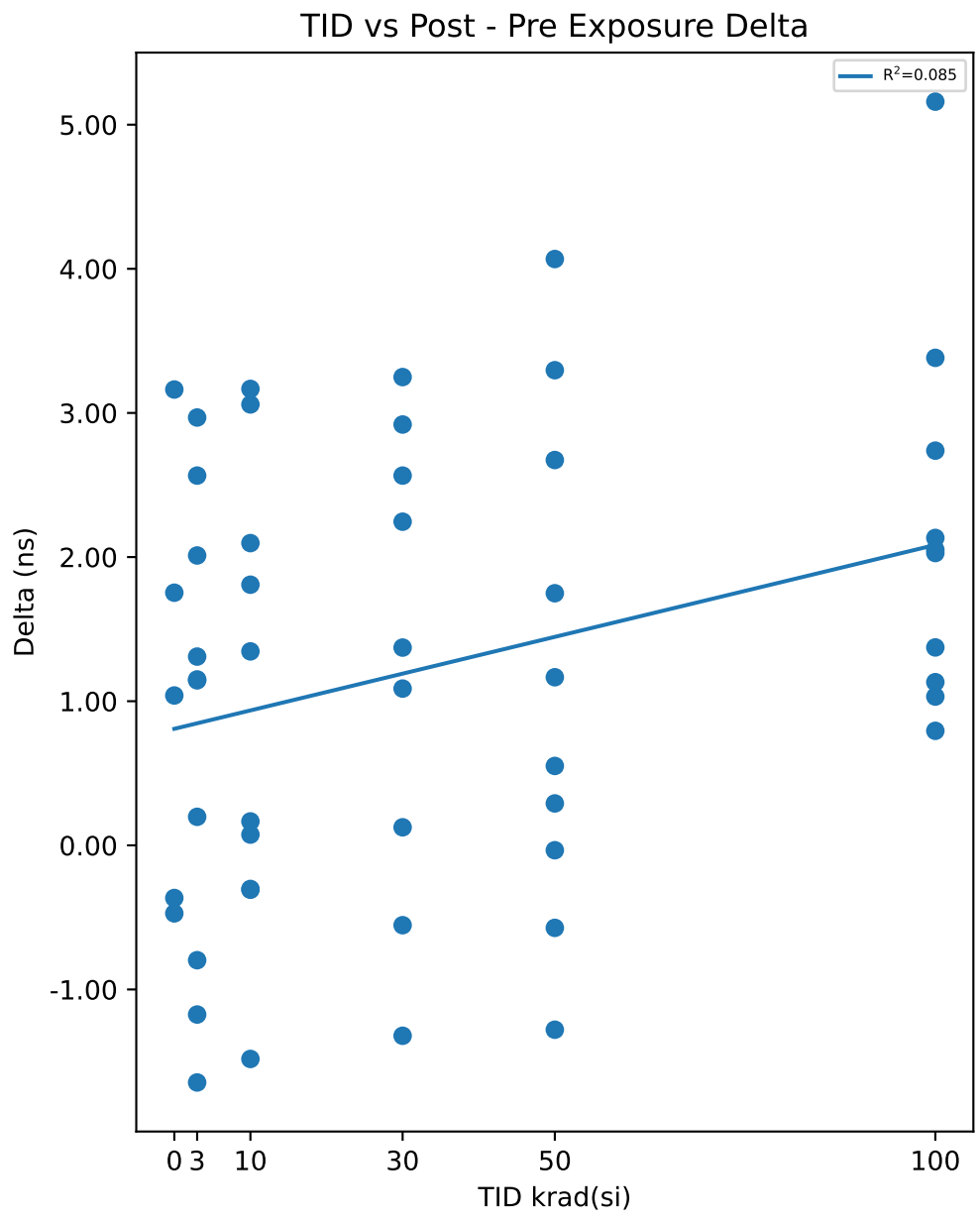
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	63.738	64.328	64.986	0.55675	63.585	65.26	67.227	1.3848	-0.4634	0.93226	3.4896	1.5759
3	64.222	64.778	65.536	0.4949	63.055	65.476	67.378	1.6775	-1.4191	0.69744	2.8277	1.5157
10	63.426	64.869	66.551	0.97942	63.714	65.751	67.219	1.1112	-1.1709	0.88206	3.6173	1.5581
30	63.987	65.046	66.18	0.70096	63.58	66.255	67.725	1.516	-1.2644	1.2086	3.307	1.5353
50	62.862	64.475	65.612	0.8347	63.774	65.703	68.374	1.4613	-1.3212	1.2278	4.0011	1.7425
100	63.573	64.264	65.18	0.55878	64.881	66.546	69.342	1.4672	0.8562	2.2823	5.3704	1.4463

Device Test: 28.14 TIMING|DELAY/CS/14/14/0/1000/5/100kHz//@CS_ILIM_DELAY



Test Results (Upper Limit = 115.0 (ns))

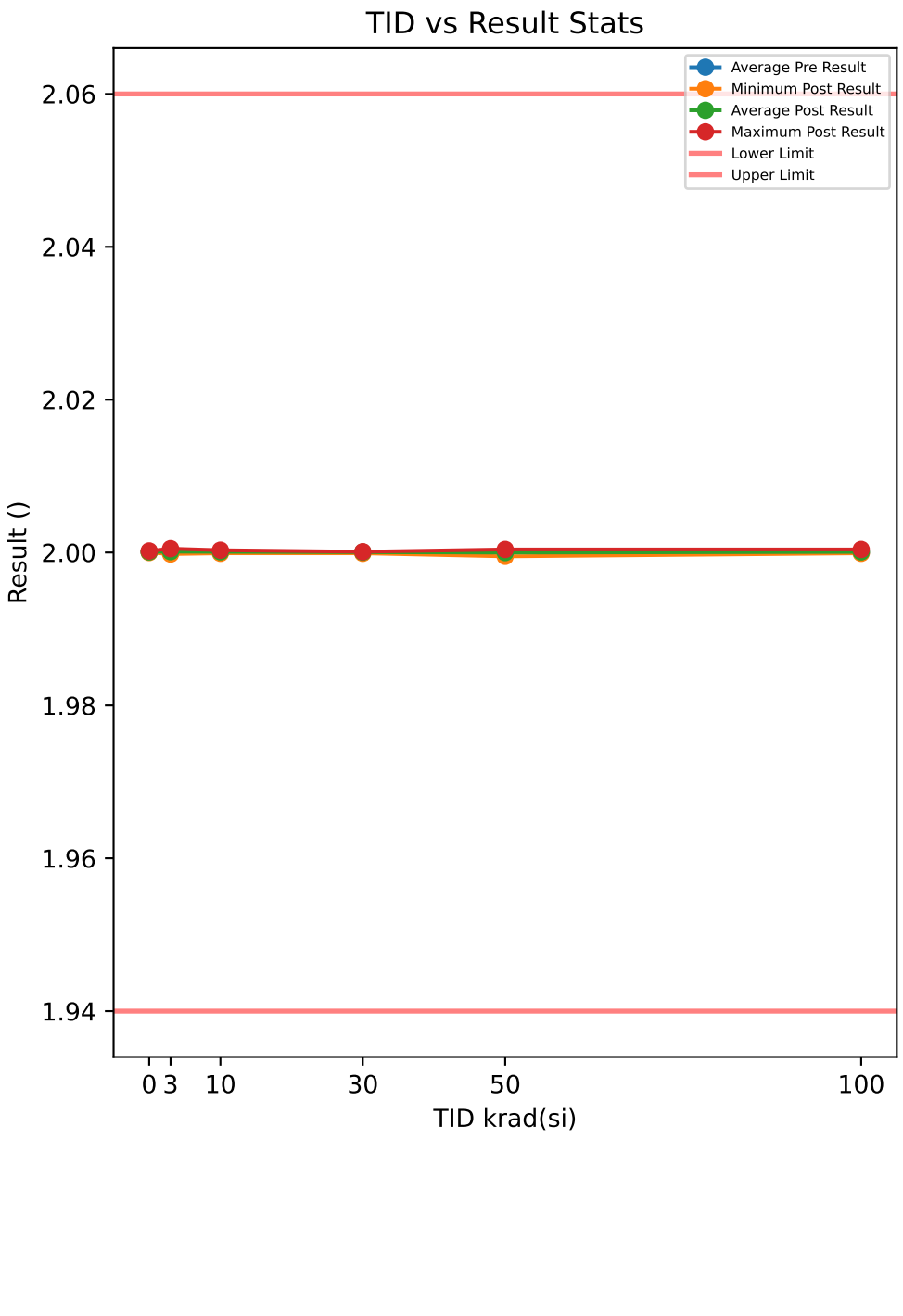
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	65.188	65.154	-0.034
411	100	Unbiased	64.579	67.317	2.7384
444	30	Unbiased	66.344	67.716	1.372
454	10	Unbiased	66.094	65.786	-0.3082
491	3	Unbiased	64.462	65.772	1.3095
500	100	Unbiased	65.177	65.972	0.7945
534	100	Biased	65.208	66.24	1.0321
558	0	Correlation	64.431	65.471	1.0396
563	100	Biased	65.54	68.923	3.3823
570	3	Unbiased	64.669	67.234	2.5653
614	10	Unbiased	64.675	67.734	3.059
675	3	Biased	64.163	64.361	0.1978
713	100	Unbiased	64.284	66.335	2.0513
744	50	Biased	64.384	65.55	1.1662
799	50	Biased	65.494	68.791	3.2965
842	30	Unbiased	65.049	67.614	2.5653
889	3	Unbiased	64.53	63.733	-0.797
901	3	Biased	65.735	66.886	1.151
930	50	Unbiased	63.005	67.073	4.0679
968	100	Unbiased	64.009	65.141	1.1321
976	100	Unbiased	64.848	66.981	2.1327
981	3	Biased	65.724	67.735	2.011
1003	10	Biased	64.233	65.579	1.3456
1039	3	Biased	64.983	63.337	-1.6453
1053	100	Biased	64.345	65.718	1.3731
1056	0	Correlation	65.239	64.767	-0.4721
1072	10	Biased	65.147	67.243	2.0969
1095	50	Unbiased	65.132	65.682	0.5508
1099	0	Correlation	64.006	67.168	3.1625
1113	3	Biased	65.424	64.251	-1.1739
1142	10	Unbiased	66.028	66.102	0.0745
1154	10	Biased	67.024	65.542	-1.4821
1215	50	Unbiased	65.538	64.258	-1.2793
1222	100	Biased	64.371	69.531	5.1598
1229	50	Unbiased	64.187	66.86	2.6733
1255	3	Unbiased	65.572	66.716	1.1447
1331	30	Unbiased	64.647	66.892	2.2454
1359	30	Biased	66.031	64.709	-1.3213
1375	30	Unbiased	66.225	67.313	1.0875
1398	30	Biased	65.513	65.638	0.1251
1411	50	Biased	63.896	64.187	0.2908
1465	10	Unbiased	63.931	67.098	3.1668
1474	50	Biased	65.976	65.403	-0.5727
1504	50	Biased	65.534	67.283	1.749
1540	100	Biased	64.273	66.301	2.028
1554	3	Unbiased	64.92	67.888	2.9682
1662	30	Biased	64.45	63.896	-0.5541
1679	10	Biased	65.382	65.079	-0.3026
1697	10	Biased	65.017	66.825	1.8083
1703	30	Biased	65.122	68.371	3.2489
1704	10	Unbiased	63.709	63.875	0.1659
1736	30	Biased	64.876	67.796	2.9197
1737	0	Correlation	65.119	66.871	1.7527
1748	0	Correlation	64.261	63.895	-0.3654

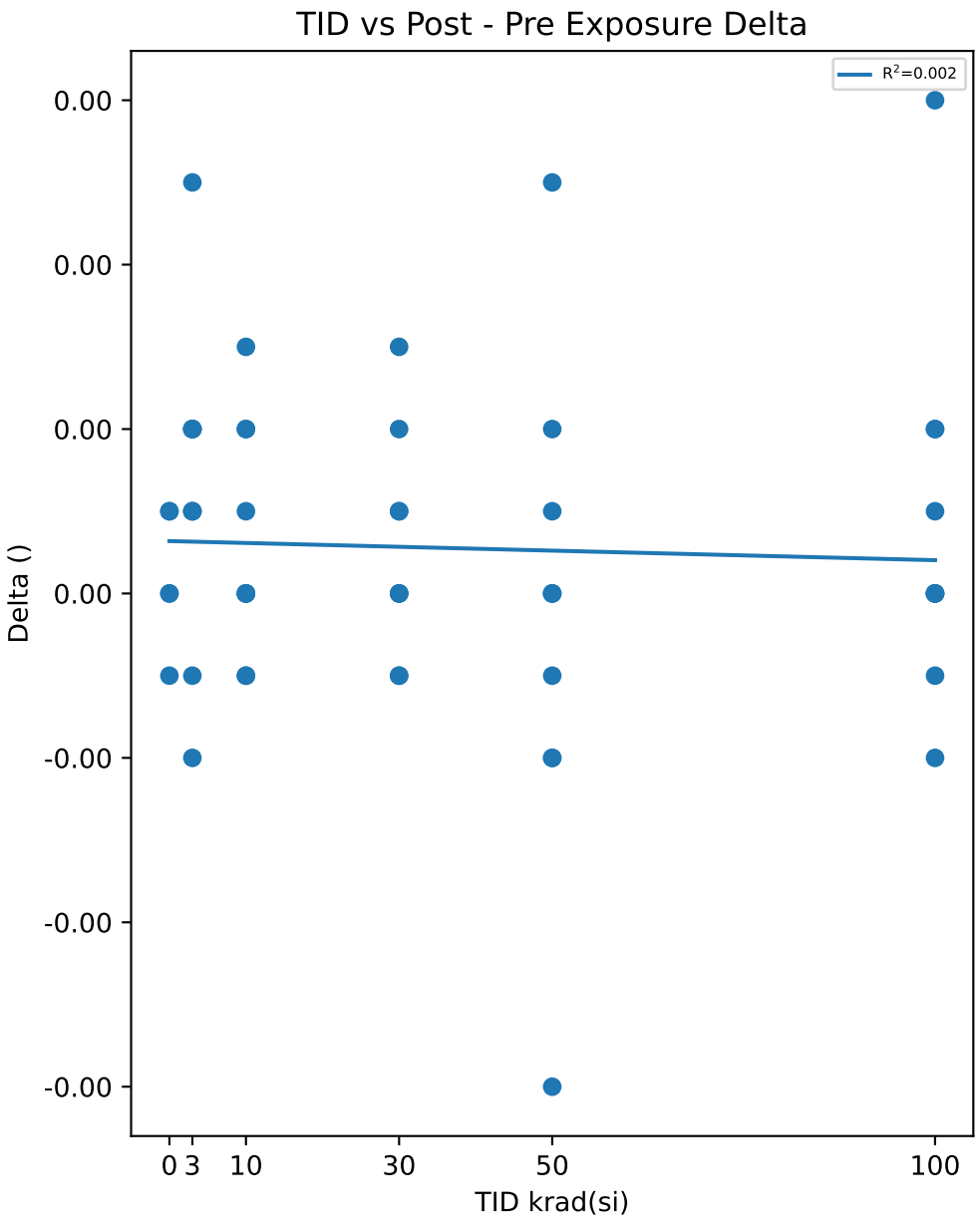


Test Statistics (ns)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	64.006	64.611	65.239	0.54157	63.895	65.635	67.168	1.3863	-0.4721	1.0235	3.1625	1.5226
3	64.163	65.018	65.735	0.56725	63.337	65.791	67.888	1.7318	-1.6453	0.77313	2.9682	1.5835
10	63.709	65.124	67.024	1.0469	63.875	66.086	67.734	1.1628	-1.4821	0.96241	3.1668	1.5641
30	64.45	65.362	66.344	0.69958	63.896	66.66	68.371	1.5497	-1.3213	1.2987	3.2489	1.6069
50	63.005	64.833	65.976	0.93011	64.187	66.024	68.791	1.4536	-1.2793	1.1908	4.0679	1.7369
100	64.009	64.663	65.54	0.50361	65.141	66.846	69.531	1.3996	0.7945	2.1824	5.1598	1.3193

Device Test: 28.15 LEVEL|RATIO/CS/8/8/0/0/5/500kHz//@C_CS_R





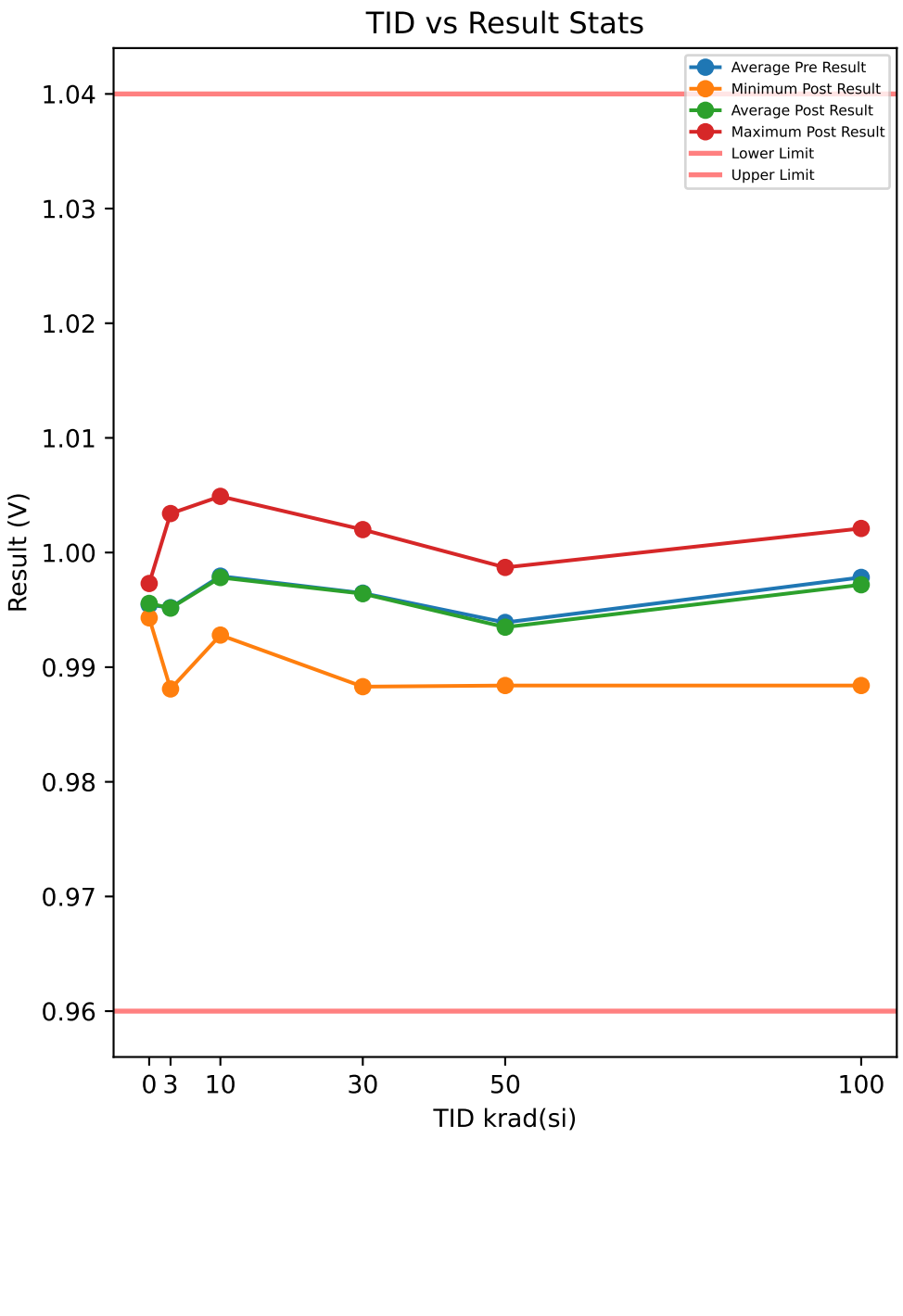
Test Results (Lower Limit = 1.94, Upper Limit = 2.06 ())

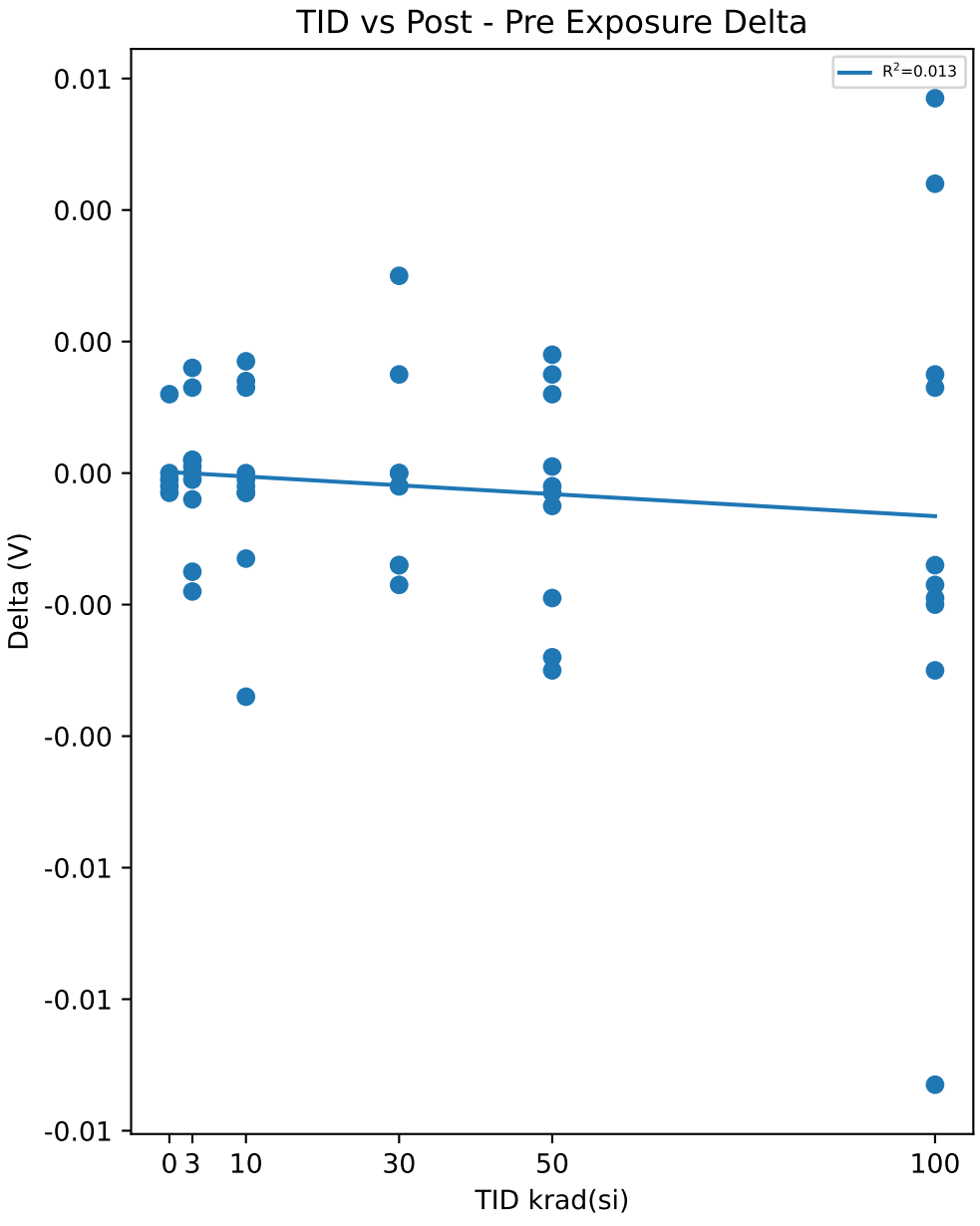
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	2.0001	1.9995	-0.0006
411	100	Unbiased	2.0001	2	-0.0001
444	30	Unbiased	2.0001	2	-0.0001
454	10	Unbiased	1.9999	2	0.0001
491	3	Unbiased	1.9999	2.0001	0.0002
500	100	Unbiased	1.9999	2.0001	0.0002
534	100	Biased	2.0001	1.9999	-0.0002
558	0	Correlation	2.0001	2.0001	0
563	100	Biased	2	2	0
570	3	Unbiased	1.9999	1.9998	-0.0001
614	10	Unbiased	2	2	0
675	3	Biased	1.9998	2	0.0002
713	100	Unbiased	1.9998	2.0004	0.0006
744	50	Biased	2	2	0
799	50	Biased	1.9999	1.9999	0
842	30	Unbiased	2	2.0001	0.0001
889	3	Unbiased	2.0002	2.0003	0.0001
901	3	Biased	2	2.0005	0.0005
930	50	Unbiased	2.0001	1.9999	-0.0002
968	100	Unbiased	2.0001	2.0001	0
976	100	Unbiased	2	2.0001	0.0001
981	3	Biased	2	2.0001	0.0001
1003	10	Biased	1.9999	2.0001	0.0002
1039	3	Biased	2.0001	2.0002	0.0001
1053	100	Biased	2.0001	2.0001	0
1056	0	Correlation	2.0001	2	-0.0001
1072	10	Biased	2.0001	2	-0.0001
1095	50	Unbiased	2.0001	2	-0.0001
1099	0	Correlation	1.9999	2	0.0001
1113	3	Biased	2	1.9998	-0.0002
1142	10	Unbiased	2	1.9999	-0.0001
1154	10	Biased	2.0001	2.0003	0.0002
1215	50	Unbiased	2.0001	1.9999	-0.0002
1222	100	Biased	1.9998	2	0.0002
1229	50	Unbiased	1.9999	2	0.0001
1255	3	Unbiased	2	2.0002	0.0002
1331	30	Unbiased	2.0001	2	-0.0001
1359	30	Biased	1.9999	2	0.0001
1375	30	Unbiased	2.0001	2.0001	0
1398	30	Biased	2.0001	2.0001	0
1411	50	Biased	2	2	0
1465	10	Unbiased	2.0001	2.0001	0
1474	50	Biased	2.0001	2.0003	0.0002
1504	50	Biased	1.9999	2.0004	0.0005
1540	100	Biased	2.0001	2.0001	0
1554	3	Unbiased	1.9999	2.0001	0.0002
1662	30	Biased	1.9999	1.9999	0
1679	10	Biased	2.0001	2.0001	0
1697	10	Biased	2	2.0003	0.0003
1703	30	Biased	1.9999	2.0001	0.0002
1704	10	Unbiased	2.0001	2.0001	0
1736	30	Biased	1.9998	2.0001	0.0003
1737	0	Correlation	2.0001	2.0001	0
1748	0	Correlation	2.0001	2.0002	0.0001

Test Statistics ()

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.9999	2.0001	2.0001	8.9443e-05	2	2.0001	2.0002	8.3666e-05	-0.0001	2e-05	0.0001	8.3666e-05
3	1.9998	2	2.0002	0.00011353	1.9998	2.0001	2.0005	0.00021318	-0.0002	0.00013	0.0005	0.00018886
10	1.9999	2	2.0001	8.2327e-05	1.9999	2.0001	2.0003	0.00012867	-0.0001	6e-05	0.0003	0.00013499
30	1.9998	2	2.0001	0.00011667	1.9999	2	2.0001	7.2648e-05	-0.0001	5.5556e-05	0.0003	0.00013333
50	1.9999	2	2.0001	9.1894e-05	1.9995	2	2.0004	0.00024244	-0.0006	-3e-05	0.0005	0.00028694
100	1.9998	2	2.0001	0.00012472	1.9999	2.0001	2.0004	0.00013166	-0.0002	8e-05	0.0006	0.0002201

Device Test: 28.17 VOLTAGE|OC/CS/8/8/0/0/5/100kHz//@V_CS_ILIM_OC





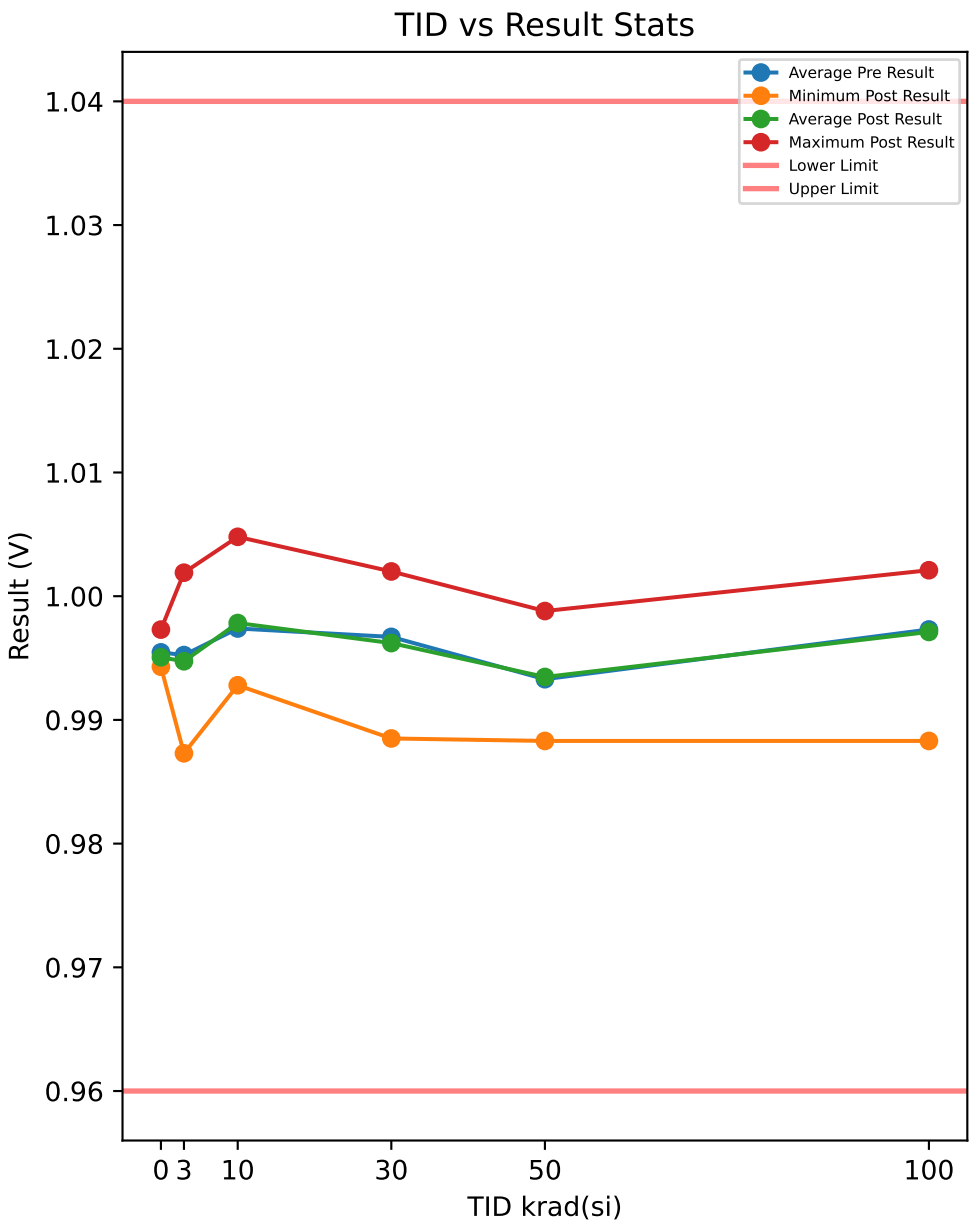
Test Results (Lower Limit = 0.96, Upper Limit = 1.04 (V))

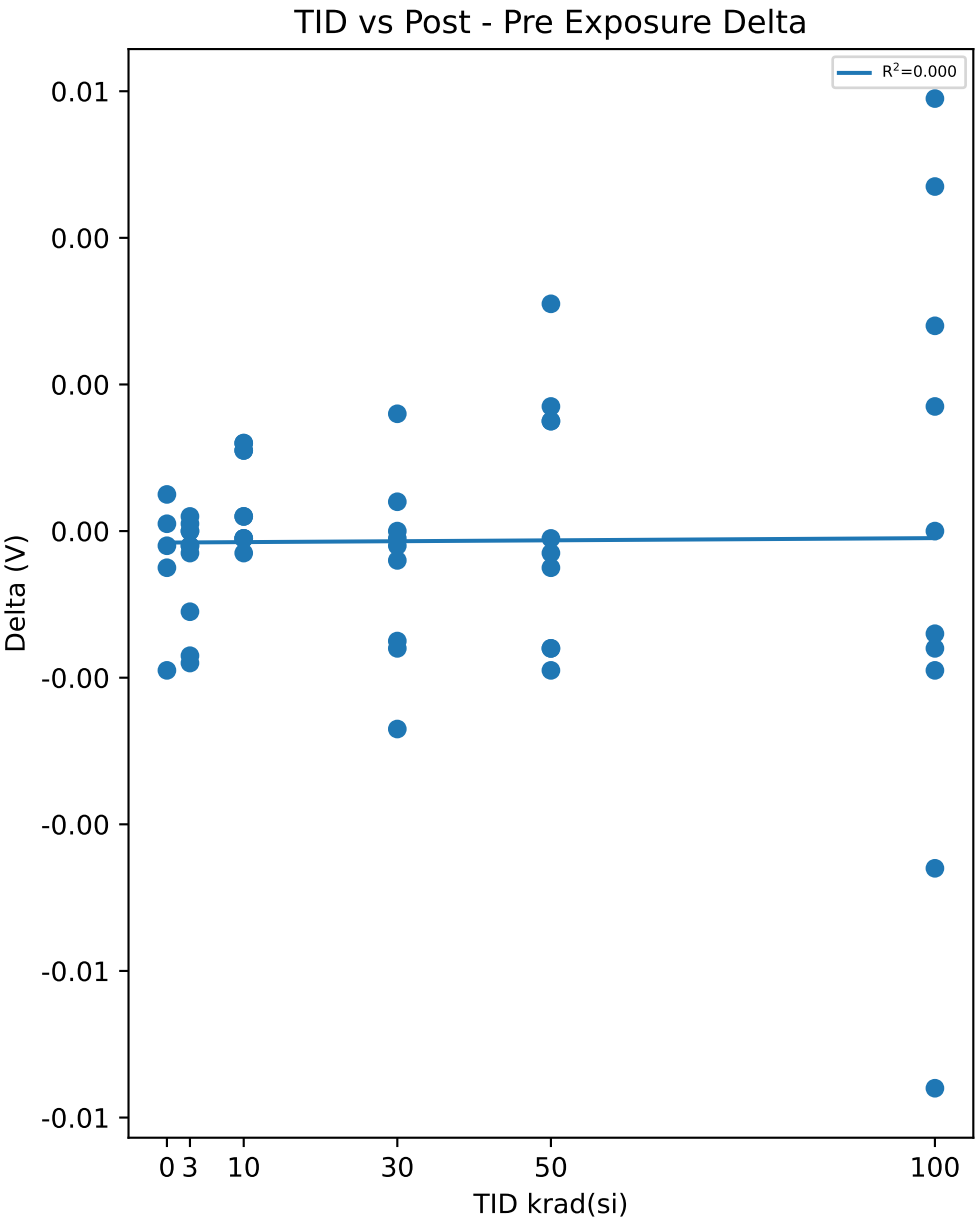
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	0.9944	0.9916	-0.0028
411	100	Unbiased	0.9973	0.9988	0.0015
444	30	Unbiased	1.0021	1.0019	-0.0002
454	10	Unbiased	0.9976	0.9973	-0.0003
491	3	Unbiased	0.9973	0.9989	0.0016
500	100	Unbiased	0.9898	0.9884	-0.0014
534	100	Biased	0.9902	0.9959	0.0057
558	0	Correlation	0.9959	0.9959	0
563	100	Biased	0.9977	0.999	0.0013
570	3	Unbiased	0.9898	0.99	0.0002
614	10	Unbiased	0.9973	0.996	-0.0013
675	3	Biased	0.9989	0.9971	-0.0018
713	100	Unbiased	1.0034	0.9941	-0.0093
744	50	Biased	0.9883	0.9884	0.0001
799	50	Biased	0.9975	0.9987	0.0012
842	30	Unbiased	1.0034	1.002	-0.0014
889	3	Unbiased	0.9988	0.9973	-0.0015
901	3	Biased	0.9914	0.9916	0.0002
930	50	Unbiased	0.9962	0.996	-0.0002
968	100	Unbiased	0.9992	0.9973	-0.0019
976	100	Unbiased	1.005	1.002	-0.003
981	3	Biased	1.0035	1.0034	-0.0001
1003	10	Biased	1.0049	1.0049	0
1039	3	Biased	0.9885	0.9881	-0.0004
1053	100	Biased	0.9988	0.9971	-0.0017
1056	0	Correlation	0.9976	0.9973	-0.0003
1072	10	Biased	0.9929	0.9943	0.0014
1095	50	Unbiased	0.9916	0.9913	-0.0003
1099	0	Correlation	0.9946	0.9958	0.0012
1113	3	Biased	0.9916	0.9916	0
1142	10	Unbiased	0.9991	1.0004	0.0013
1154	10	Biased	0.9959	0.9976	0.0017
1215	50	Unbiased	0.9976	0.9971	-0.0005
1222	100	Biased	0.9977	1.0021	0.0044
1229	50	Unbiased	0.9916	0.9897	-0.0019
1255	3	Unbiased	0.9977	0.999	0.0013
1331	30	Unbiased	0.9883	0.9883	0
1359	30	Biased	0.9961	0.9944	-0.0017
1375	30	Unbiased	0.9959	0.9945	-0.0014
1398	30	Biased	0.9946	0.9944	-0.0002
1411	50	Biased	0.9959	0.9977	0.0018
1465	10	Unbiased	0.9947	0.9946	-0.0001
1474	50	Biased	0.9959	0.9929	-0.003
1504	50	Biased	0.99	0.9915	0.0015
1540	100	Biased	0.9992	0.9972	-0.002
1554	3	Unbiased	0.9944	0.9945	0.0001
1662	30	Biased	0.9944	0.9944	0
1679	10	Biased	0.9931	0.9928	-0.0003
1697	10	Biased	1.0035	1.0033	-0.0002
1703	30	Biased	0.9988	1.0018	0.003
1704	10	Unbiased	1.0004	0.997	-0.0034
1736	30	Biased	0.9945	0.996	0.0015
1737	0	Correlation	0.9945	0.9943	-0.0002
1748	0	Correlation	0.9946	0.9945	-0.0001

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.9945	0.99544	0.9976	0.001339	0.9943	0.99556	0.9973	0.0012157	-0.0003	0.00012	0.0012	0.000614
3	0.9885	0.99519	1.0035	0.0048107	0.9881	0.99515	1.0034	0.0047984	-0.0018	-4e-05	0.0016	0.0010532
10	0.9929	0.99794	1.0049	0.0040929	0.9928	0.99782	1.0049	0.003931	-0.0034	-0.00012	0.0017	0.0014861
30	0.9883	0.99646	1.0034	0.004528	0.9883	0.99641	1.002	0.0046388	-0.0017	-4.4444e-05	0.003	0.0015051
50	0.9883	0.9939	0.9976	0.0032887	0.9884	0.99349	0.9987	0.0036078	-0.003	-0.00041	0.0018	0.0017026
100	0.9898	0.99783	1.005	0.0048321	0.9884	0.99719	1.0021	0.0039667	-0.0093	-0.00064	0.0057	0.0042117

Device Test: 28.18 VOLTAGE|OC/CS/8/8/0/0/5/500kHz//@V_CS_ILIM_OC





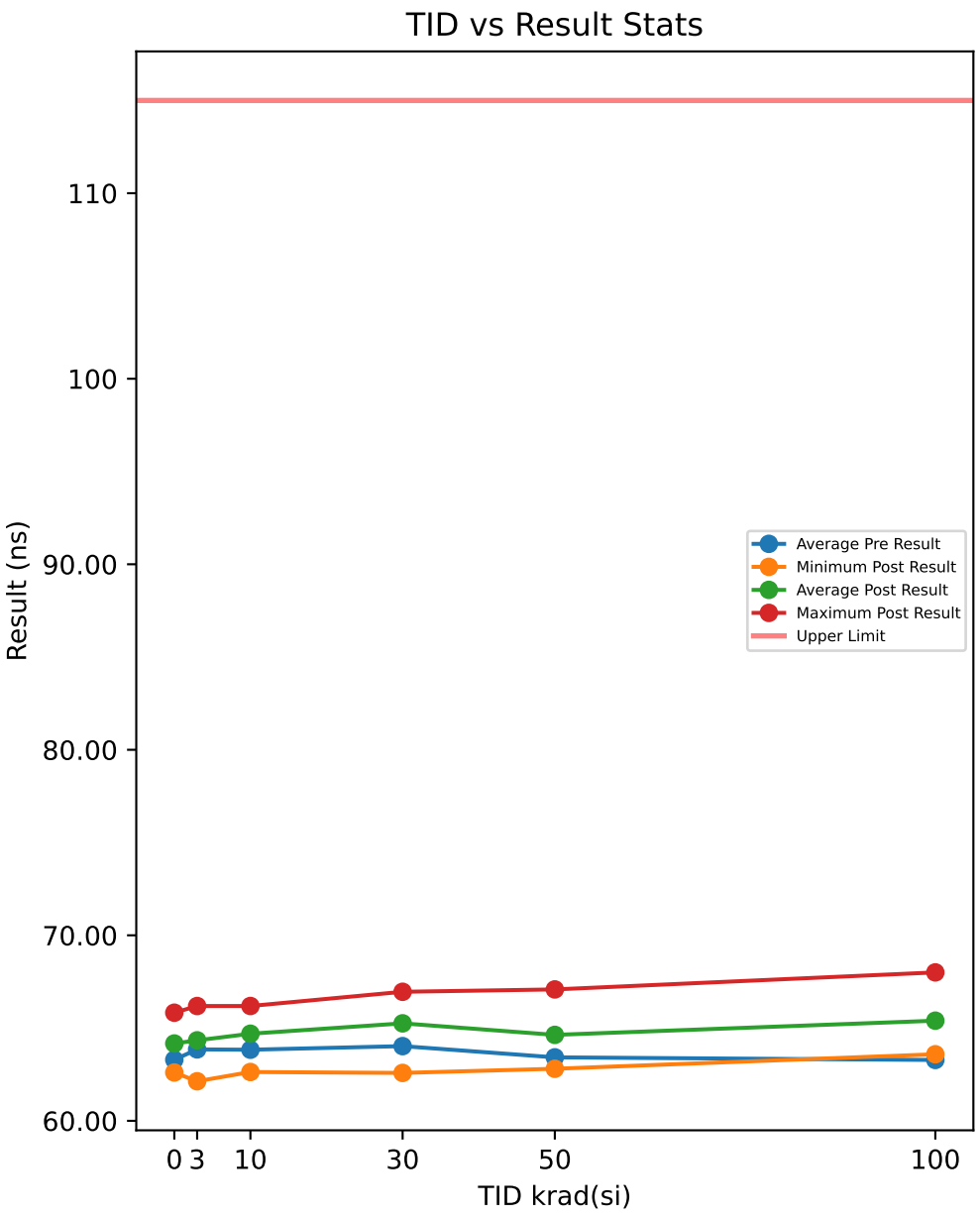
Test Results (Lower Limit = 0.96, Upper Limit = 1.04 (V))

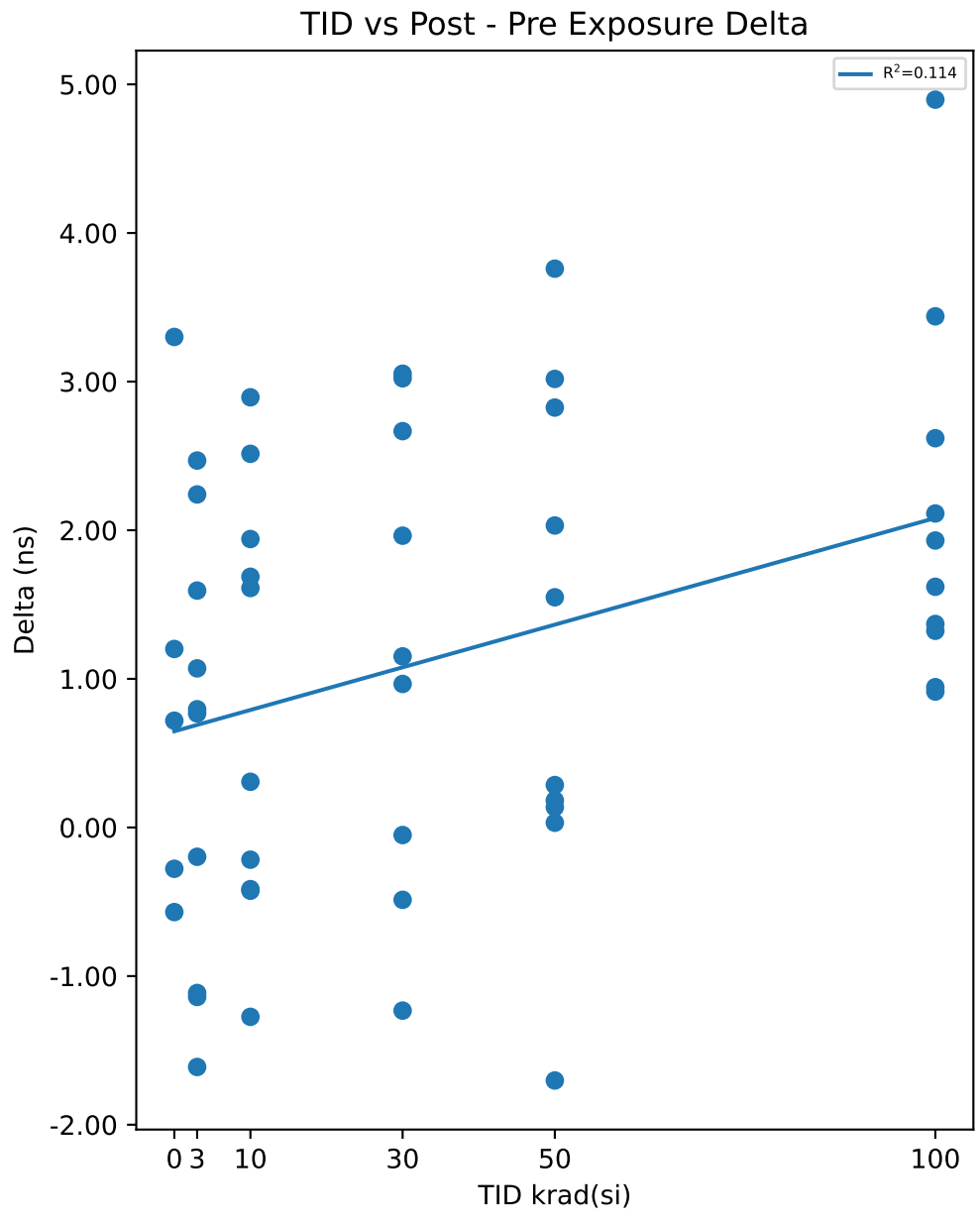
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	0.9932	0.9913	-0.0019
411	100	Unbiased	0.9973	0.999	0.0017
444	30	Unbiased	1.0021	1.002	-0.0001
454	10	Unbiased	0.9977	0.9988	0.0011
491	3	Unbiased	0.9976	0.9973	-0.0003
500	100	Unbiased	0.9899	0.9883	-0.0016
534	100	Biased	0.99	0.9959	0.0059
558	0	Correlation	0.9949	0.9944	-0.0005
563	100	Biased	0.9962	0.999	0.0028
570	3	Unbiased	0.9899	0.9897	-0.0002
614	10	Unbiased	0.9959	0.9958	-0.0001
675	3	Biased	0.9991	0.9973	-0.0018
713	100	Unbiased	1.002	0.9944	-0.0076
744	50	Biased	0.9868	0.9883	0.0015
799	50	Biased	0.9973	0.9988	0.0015
842	30	Unbiased	1.0022	1.0018	-0.0004
889	3	Unbiased	0.9988	0.9971	-0.0017
901	3	Biased	0.9915	0.9915	0
930	50	Unbiased	0.9961	0.996	-0.0001
968	100	Unbiased	0.9973	0.9973	0
976	100	Unbiased	1.0049	1.0003	-0.0046
981	3	Biased	1.0019	1.0019	0
1003	10	Biased	1.0037	1.0048	0.0011
1039	3	Biased	0.9884	0.9873	-0.0011
1053	100	Biased	0.9989	0.9975	-0.0014
1056	0	Correlation	0.9992	0.9973	-0.0019
1072	10	Biased	0.9931	0.9943	0.0012
1095	50	Unbiased	0.9916	0.9913	-0.0003
1099	0	Correlation	0.9944	0.9945	0.0001
1113	3	Biased	0.9917	0.9919	0.0002
1142	10	Unbiased	0.9992	1.0004	0.0012
1154	10	Biased	0.9962	0.9959	-0.0003
1215	50	Unbiased	0.9976	0.9971	-0.0005
1222	100	Biased	0.9974	1.0021	0.0047
1229	50	Unbiased	0.9916	0.99	-0.0016
1255	3	Unbiased	0.9991	0.9989	-0.0002
1331	30	Unbiased	0.99	0.9885	-0.0015
1359	30	Biased	0.9976	0.9949	-0.0027
1375	30	Unbiased	0.9961	0.9945	-0.0016
1398	30	Biased	0.9946	0.9944	-0.0002
1411	50	Biased	0.9958	0.9975	0.0017
1465	10	Unbiased	0.9929	0.9931	0.0002
1474	50	Biased	0.9945	0.9929	-0.0016
1504	50	Biased	0.9884	0.9915	0.0031
1540	100	Biased	0.9992	0.9973	-0.0019
1554	3	Unbiased	0.9944	0.9945	0.0001
1662	30	Biased	0.9945	0.9949	0.0004
1679	10	Biased	0.9929	0.9928	-0.0001
1697	10	Biased	1.0034	1.0033	-0.0001
1703	30	Biased	0.9988	1.0004	0.0016
1704	10	Unbiased	0.9989	0.9991	0.0002
1736	30	Biased	0.9945	0.9945	0
1737	0	Correlation	0.9945	0.9943	-0.0002
1748	0	Correlation	0.9943	0.9948	0.0005

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.9943	0.99546	0.9992	0.0021031	0.9943	0.99506	0.9973	0.0012661	-0.0019	-0.0004	0.0005	0.00091652
3	0.9884	0.99524	1.0019	0.0046538	0.9873	0.99474	1.0019	0.0045537	-0.0018	-0.0005	0.0002	0.00074981
10	0.9929	0.99739	1.0037	0.0039993	0.9928	0.99783	1.0048	0.0041585	-0.0003	0.00044	0.0012	0.00062929
30	0.99	0.99671	1.0022	0.0039365	0.9885	0.99621	1.002	0.0043922	-0.0027	-0.0005	0.0016	0.0012639
50	0.9868	0.99329	0.9976	0.0036828	0.9883	0.99347	0.9988	0.0035997	-0.0019	0.00018	0.0031	0.0016917
100	0.9899	0.99731	1.0049	0.0046582	0.9883	0.99711	1.0021	0.003784	-0.0076	-0.0002	0.0059	0.0041403

Device Test: 28.19 TIMING|DELAY/CS/8/8/0/0/5/100kHz//@CS_ILIM_DELAY





Test Results (Upper Limit = 115.0 (ns))

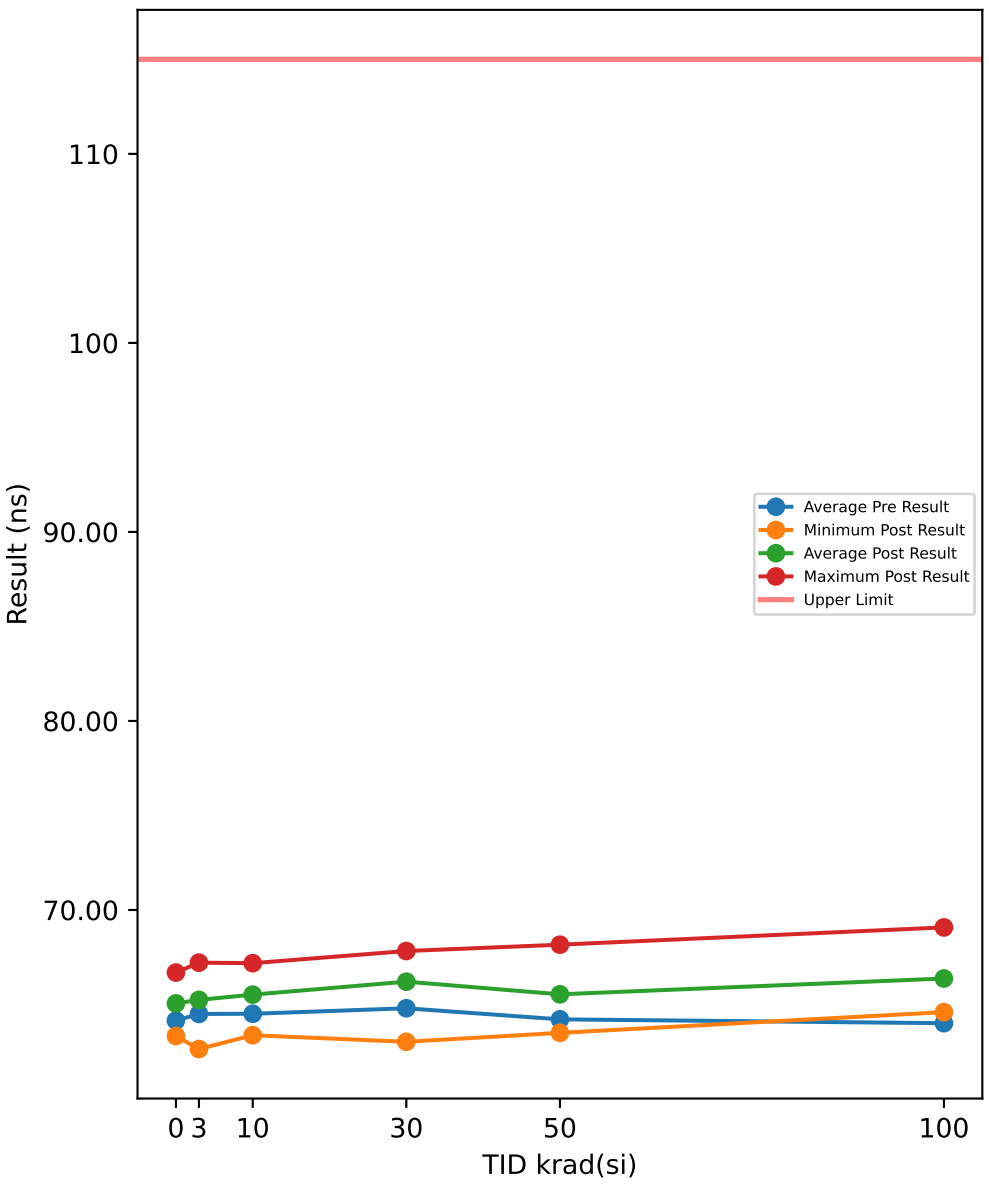
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	63.562	63.744	0.1825
411	100	Unbiased	62.867	65.487	2.6191
444	30	Unbiased	65.239	66.39	1.1511
454	10	Unbiased	64.821	64.406	-0.4149
491	3	Unbiased	63.508	64.303	0.7954
500	100	Unbiased	63.508	64.452	0.944
534	100	Biased	64.112	65.027	0.9145
558	0	Correlation	63.261	63.98	0.7185
563	100	Biased	64.083	67.523	3.4392
570	3	Unbiased	63.337	65.578	2.2408
614	10	Unbiased	63.675	66.189	2.5141
675	3	Biased	63.208	63.011	-0.1972
713	100	Unbiased	63.079	64.699	1.6195
744	50	Biased	62.273	64.304	2.0318
799	50	Biased	64.065	67.083	3.0181
842	30	Unbiased	63.107	65.774	2.6666
889	3	Unbiased	63.465	62.352	-1.1137
901	3	Biased	64.339	65.41	1.0705
930	50	Unbiased	61.8	65.559	3.7599
968	100	Unbiased	62.264	63.587	1.3233
976	100	Unbiased	63.852	65.783	1.9308
981	3	Biased	64.559	66.153	1.5939
1003	10	Biased	62.571	64.258	1.6869
1039	3	Biased	63.744	62.133	-1.6115
1053	100	Biased	62.992	64.362	1.3692
1056	0	Correlation	64.039	63.47	-0.5692
1072	10	Biased	63.894	65.834	1.9407
1095	50	Unbiased	63.822	63.959	0.1364
1099	0	Correlation	62.527	65.827	3.3005
1113	3	Biased	64.059	62.919	-1.1403
1142	10	Unbiased	64.936	64.511	-0.4255
1154	10	Biased	65.755	64.481	-1.274
1215	50	Unbiased	64.509	62.806	-1.7025
1222	100	Biased	63.103	68	4.897
1229	50	Unbiased	62.929	65.754	2.8254
1255	3	Unbiased	64.57	65.337	0.7676
1331	30	Unbiased	63.53	65.493	1.9632
1359	30	Biased	64.695	63.462	-1.2322
1375	30	Unbiased	64.74	65.705	0.9658
1398	30	Biased	64.342	64.291	-0.051
1411	50	Biased	62.693	62.978	0.2854
1465	10	Unbiased	62.684	65.578	2.8944
1474	50	Biased	64.329	64.361	0.032
1504	50	Biased	64.236	65.785	1.5487
1540	100	Biased	62.95	65.063	2.1127
1554	3	Unbiased	63.719	66.188	2.4689
1662	30	Biased	63.069	62.583	-0.4868
1679	10	Biased	64.015	63.798	-0.2168
1697	10	Biased	63.65	65.261	1.6112
1703	30	Biased	63.902	66.955	3.0531
1704	10	Unbiased	62.324	62.632	0.3074
1736	30	Biased	63.617	66.639	3.0222
1737	0	Correlation	63.759	64.96	1.2009
1748	0	Correlation	62.883	62.605	-0.2779

Test Statistics (ns)

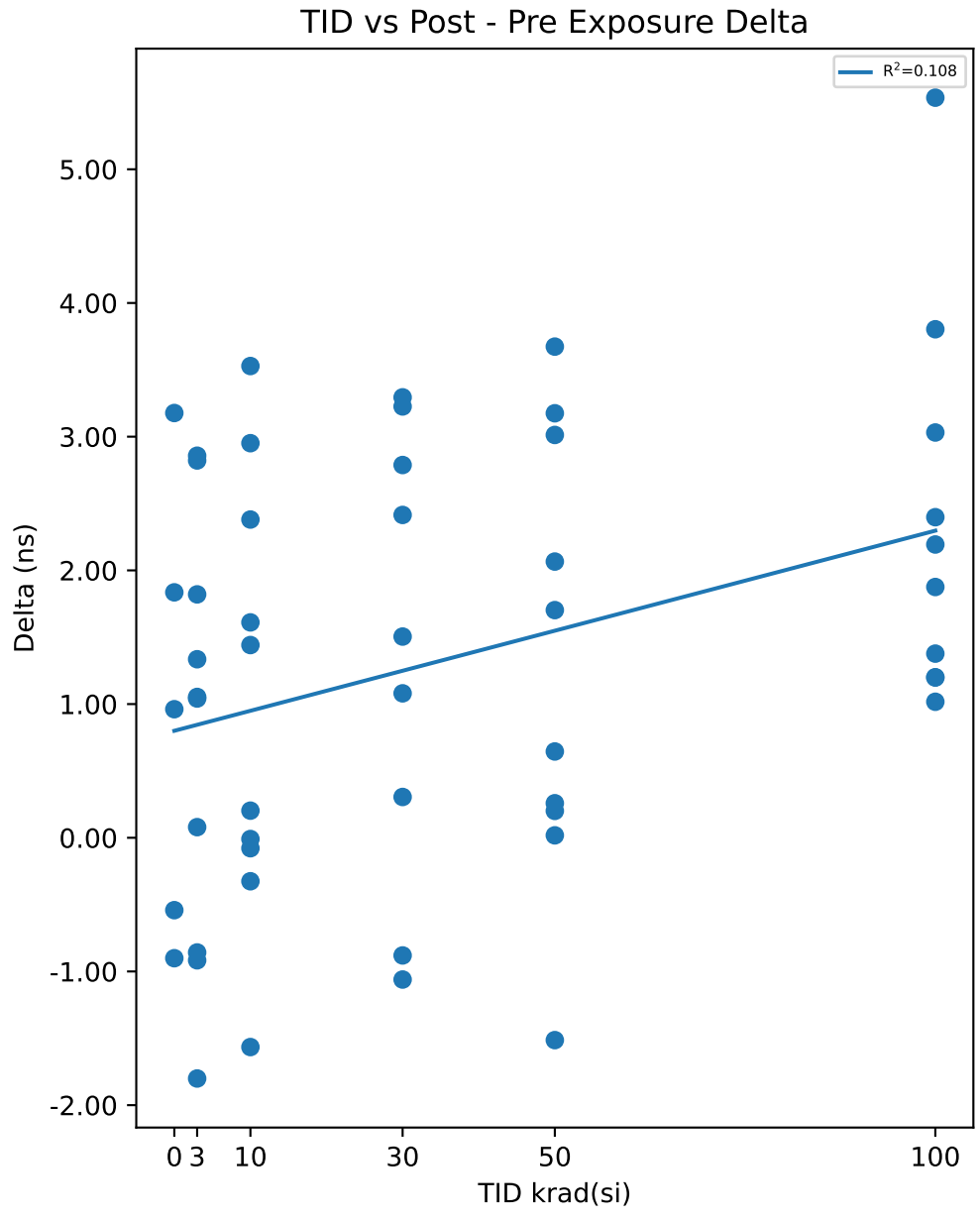
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	62.527	63.294	64.039	0.61858	62.605	64.168	65.827	1.2598	-0.5692	0.87456	3.3005	1.5353
3	63.208	63.851	64.57	0.50248	62.133	64.338	66.188	1.598	-1.6115	0.48744	2.4689	1.4463
10	62.324	63.833	65.755	1.1143	62.632	64.695	66.189	1.0567	-1.274	0.86235	2.8944	1.4371
30	63.069	64.027	65.239	0.76783	62.583	65.255	66.955	1.4961	-1.2322	1.228	3.0531	1.5757
50	61.8	63.422	64.509	0.94214	62.806	64.633	67.083	1.3723	-1.7025	1.2118	3.7599	1.7031
100	62.264	63.281	64.112	0.59473	63.587	65.398	68	1.3915	0.9145	2.1169	4.897	1.2482

Device Test: 28.20 TIMING|DELAY/CS/8/8/0/1000/5/100kHz//@CS_ILIM_DELAY

TID vs Result Stats



TID vs Post - Pre Exposure Delta



Test Results (Upper Limit = 115.0 (ns))

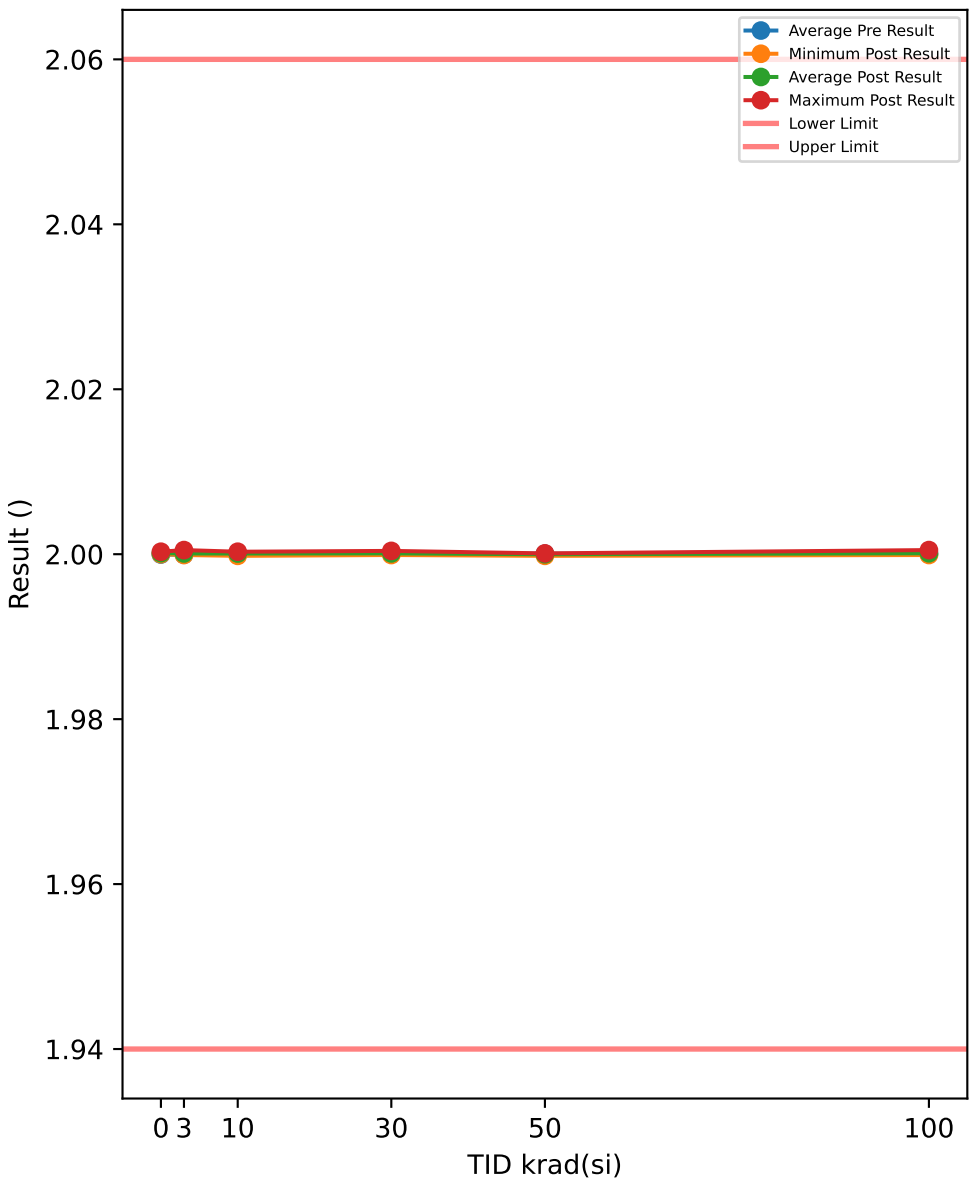
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	64.373	64.631	0.2583
411	100	Unbiased	63.666	66.697	3.0312
444	30	Unbiased	65.904	67.409	1.5049
454	10	Unbiased	65.507	65.182	-0.3253
491	3	Unbiased	64.022	65.075	1.0534
500	100	Unbiased	64.469	65.486	1.0173
534	100	Biased	64.669	66.047	1.3773
558	0	Correlation	63.932	64.894	0.9616
563	100	Biased	64.804	68.608	3.8035
570	3	Unbiased	64.122	66.944	2.8221
614	10	Unbiased	64.235	67.186	2.9513
675	3	Biased	63.733	63.812	0.0795
713	100	Unbiased	63.897	65.772	1.8757
744	50	Biased	63.084	65.15	2.0659
799	50	Biased	64.989	68.164	3.175
842	30	Unbiased	64.271	67.059	2.7881
889	3	Unbiased	63.958	63.1	-0.8579
901	3	Biased	65.025	66.36	1.3353
930	50	Unbiased	62.928	66.601	3.6737
968	100	Unbiased	63.396	64.595	1.1987
976	100	Unbiased	64.392	66.586	2.1935
981	3	Biased	65.331	67.151	1.8205
1003	10	Biased	63.498	64.939	1.4414
1039	3	Biased	64.444	62.644	-1.8006
1053	100	Biased	63.716	64.917	1.2006
1056	0	Correlation	64.761	64.22	-0.5415
1072	10	Biased	64.449	66.829	2.3802
1095	50	Unbiased	64.51	65.155	0.6454
1099	0	Correlation	63.512	66.689	3.1769
1113	3	Biased	64.857	63.941	-0.9166
1142	10	Unbiased	65.421	65.411	-0.0094
1154	10	Biased	66.573	65.007	-1.5654
1215	50	Unbiased	65.013	63.499	-1.5135
1222	100	Biased	63.543	69.078	5.5356
1229	50	Unbiased	63.55	66.563	3.0129
1255	3	Unbiased	65.148	66.19	1.0415
1331	30	Unbiased	64.163	66.578	2.4146
1359	30	Biased	65.421	64.36	-1.0604
1375	30	Unbiased	65.481	66.562	1.0803
1398	30	Biased	65.134	65.439	0.3052
1411	50	Biased	63.525	63.726	0.201
1465	10	Unbiased	63.131	66.659	3.5285
1474	50	Biased	65.151	65.169	0.0181
1504	50	Biased	65.021	66.724	1.7028
1540	100	Biased	63.557	65.955	2.3978
1554	3	Unbiased	64.356	67.214	2.8576
1662	30	Biased	63.908	63.027	-0.8802
1679	10	Biased	64.654	64.576	-0.0782
1697	10	Biased	64.448	66.058	1.6109
1703	30	Biased	64.534	67.829	3.2942
1704	10	Unbiased	63.172	63.374	0.2028
1736	30	Biased	64.382	67.608	3.2261
1737	0	Correlation	64.312	66.147	1.8357
1748	0	Correlation	64.234	63.334	-0.9009

Test Statistics (ns)

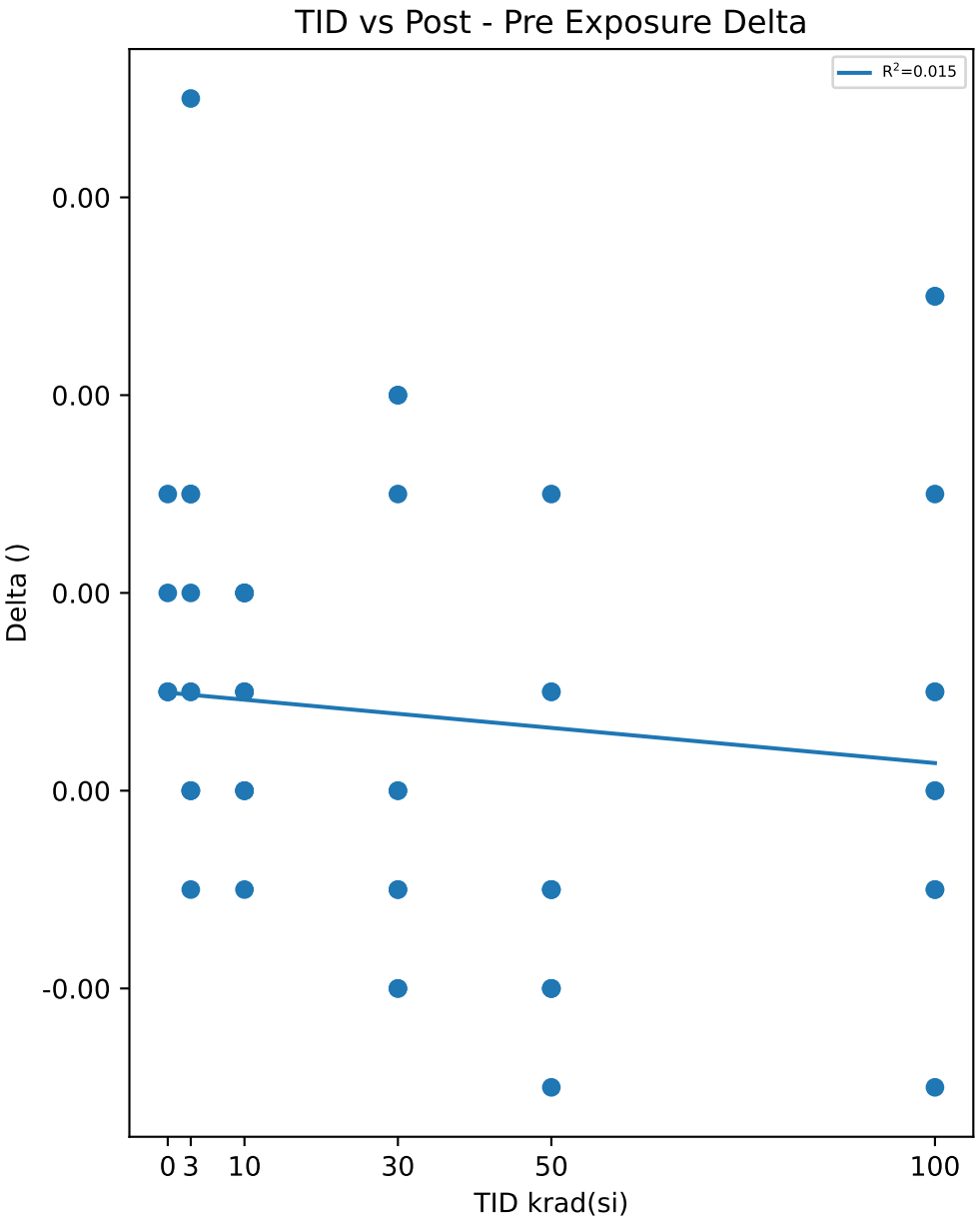
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	63.512	64.15	64.761	0.464	63.334	65.057	66.689	1.3739	-0.9009	0.90636	3.1769	1.6871
3	63.733	64.5	65.331	0.55686	62.644	65.243	67.214	1.7537	-1.8006	0.74348	2.8576	1.5888
10	63.131	64.509	66.573	1.1005	63.374	65.522	67.186	1.169	-1.5654	1.0137	3.5285	1.6271
30	63.908	64.8	65.904	0.69889	63.027	66.208	67.829	1.6255	-1.0604	1.4081	3.2942	1.6749
50	62.928	64.214	65.151	0.86454	63.499	65.538	68.164	1.4598	-1.5135	1.324	3.6737	1.6703
100	63.396	64.011	64.804	0.52067	64.595	66.374	69.078	1.4595	1.0173	2.3631	5.5356	1.4276

Device Test: 28.3 LEVEL|RATIO/CS/12/12/0/0/5/500kHz//@C_CS_R

TID vs Result Stats



TID vs Post - Pre Exposure Delta



Test Results (Lower Limit = 1.94, Upper Limit = 2.06 ())

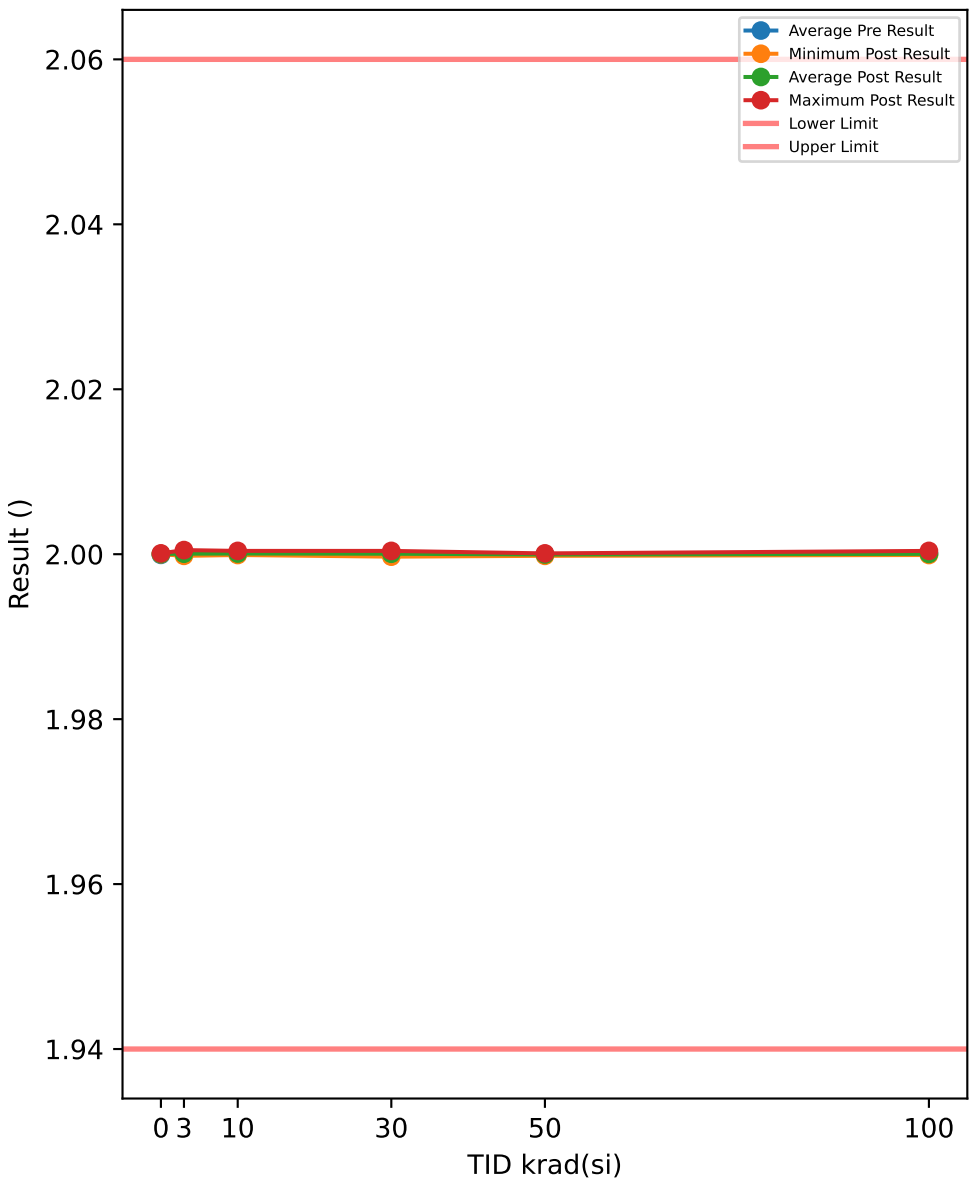
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	2.0003	2.0001	-0.0002
411	100	Unbiased	2	2.0005	0.0005
444	30	Unbiased	2.0001	1.9999	-0.0002
454	10	Unbiased	2	2.0001	0.0001
491	3	Unbiased	2	2	0
500	100	Unbiased	2.0001	2	-0.0001
534	100	Biased	2	2.0001	0.0001
558	0	Correlation	1.9999	2	0.0001
563	100	Biased	2.0001	2	-0.0001
570	3	Unbiased	1.9998	2.0001	0.0003
614	10	Unbiased	2.0002	2.0001	-0.0001
675	3	Biased	1.9998	2	0.0002
713	100	Unbiased	2.0002	1.9999	-0.0003
744	50	Biased	1.9998	2.0001	0.0003
799	50	Biased	2.0001	1.9999	-0.0002
842	30	Unbiased	2	2.0004	0.0004
889	3	Unbiased	2.0001	2	-0.0001
901	3	Biased	2	2.0001	0.0001
930	50	Unbiased	2.0001	1.9999	-0.0002
968	100	Unbiased	2.0001	2.0001	0
976	100	Unbiased	1.9999	2.0004	0.0005
981	3	Biased	1.9998	2.0001	0.0003
1003	10	Biased	2.0001	2.0001	0
1039	3	Biased	2	2.0001	0.0001
1053	100	Biased	1.9999	2	0.0001
1056	0	Correlation	1.9999	2	0.0001
1072	10	Biased	1.9999	2	0.0001
1095	50	Unbiased	2	2.0001	0.0001
1099	0	Correlation	2.0001	2.0003	0.0002
1113	3	Biased	1.9999	1.9999	0
1142	10	Unbiased	2	2.0001	0.0001
1154	10	Biased	2	2.0002	0.0002
1215	50	Unbiased	2.0001	1.9998	-0.0003
1222	100	Biased	2	2	0
1229	50	Unbiased	2.0002	2.0001	-0.0001
1255	3	Unbiased	1.9998	2.0005	0.0007
1331	30	Unbiased	2	2	0
1359	30	Biased	2.0001	2	-0.0001
1375	30	Unbiased	2.0001	2.0001	0
1398	30	Biased	2.0001	1.9999	-0.0002
1411	50	Biased	2	1.9999	-0.0001
1465	10	Unbiased	1.9999	2.0001	0.0002
1474	50	Biased	2.0001	2	-0.0001
1504	50	Biased	1.9999	2	0.0001
1540	100	Biased	1.9998	2.0001	0.0003
1554	3	Unbiased	2.0001	2.0001	0
1662	30	Biased	1.9999	2.0002	0.0003
1679	10	Biased	2	2	0
1697	10	Biased	2.0001	2.0003	0.0002
1703	30	Biased	2	2.0004	0.0004
1704	10	Unbiased	1.9998	1.9998	0
1736	30	Biased	2.0001	2	-0.0001
1737	0	Correlation	1.9999	2	0.0001
1748	0	Correlation	2	2.0003	0.0003

Test Statistics ()

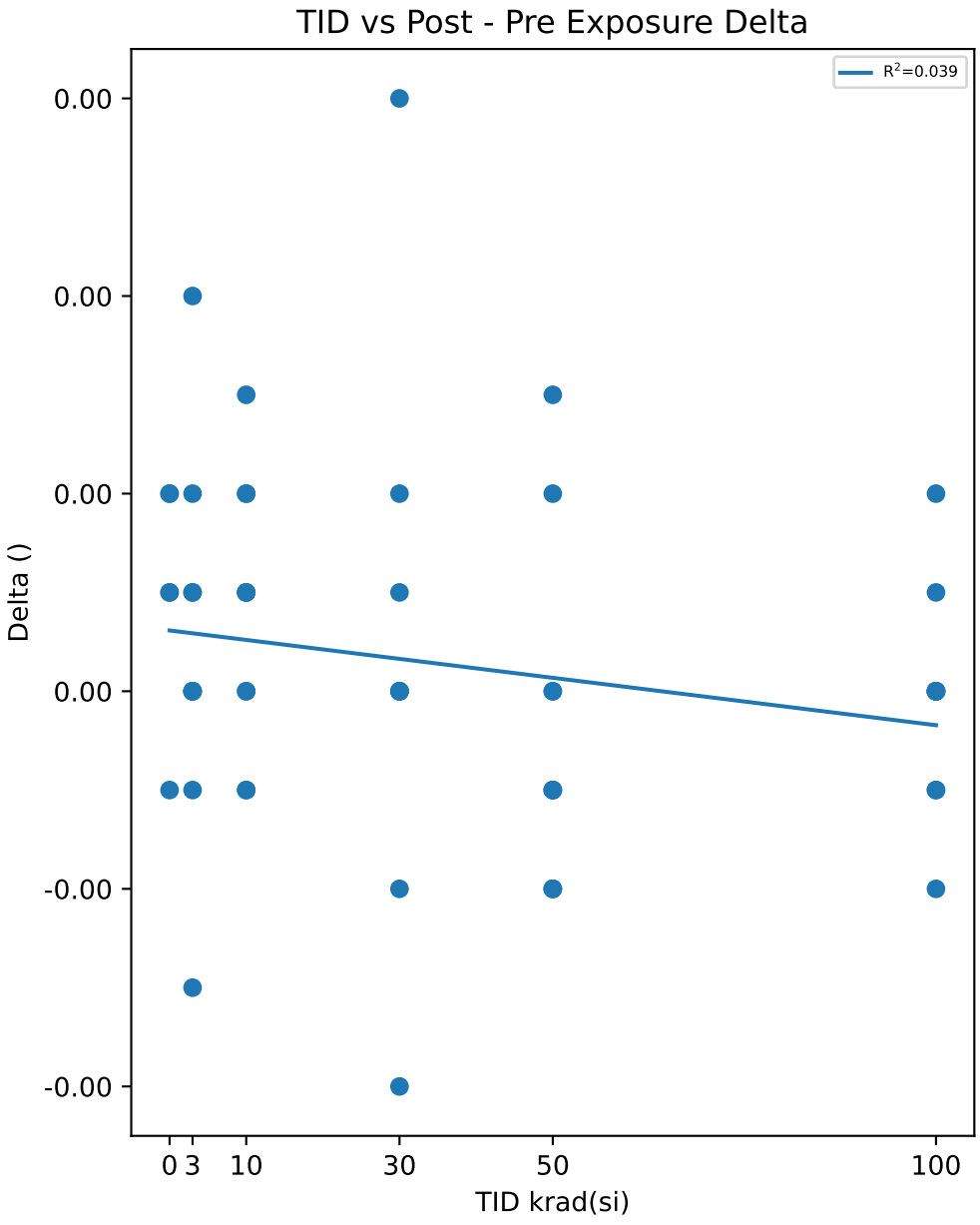
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.9999	2	2.0001	8.9443e-05	2	2.0001	2.0003	0.00016432	0.0001	0.00016	0.0003	8.9443e-05
3	1.9998	1.9999	2.0001	0.00012517	1.9999	2.0001	2.0005	0.00015951	-0.0001	0.00016	0.0007	0.0002319
10	1.9998	2	2.0002	0.00011547	1.9998	2.0001	2.0003	0.00013166	-0.0001	8e-05	0.0002	0.00010328
30	1.9999	2	2.0001	7.2648e-05	1.9999	2.0001	2.0004	0.00019365	-0.0002	5.5556e-05	0.0004	0.00024552
50	1.9998	2.0001	2.0003	0.00014298	1.9998	2	2.0001	0.00011005	-0.0003	-7e-05	0.0003	0.00018288
100	1.9998	2	2.0002	0.00011972	1.9999	2.0001	2.0005	0.0001912	-0.0003	0.0001	0.0005	0.00026247

Device Test: 28.4 LEVEL|RATIO/CS/14/14/0/0/5/500kHz//@C_CS_R

TID vs Result Stats



TID vs Post - Pre Exposure Delta



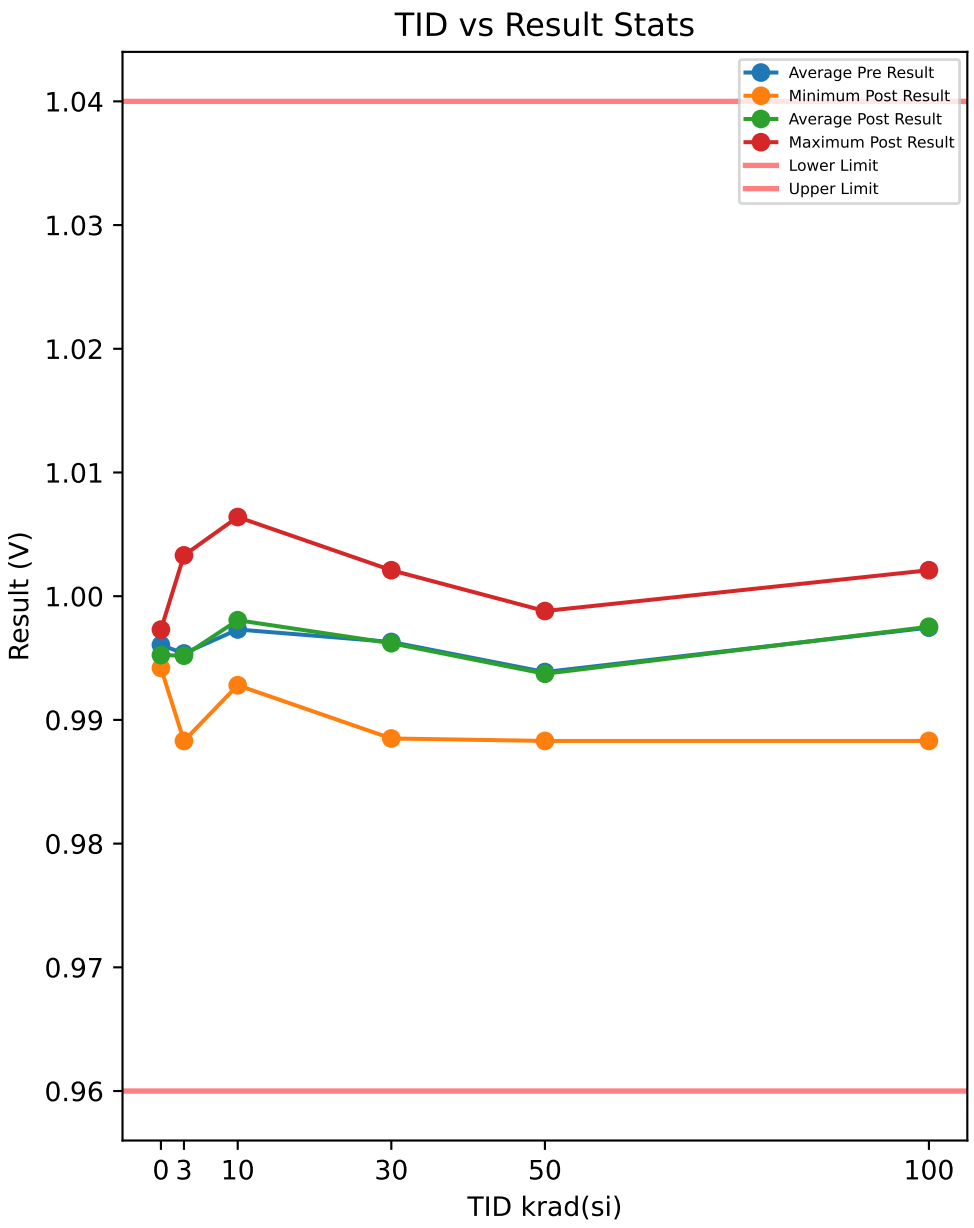
Test Results (Lower Limit = 1.94, Upper Limit = 2.06 ())

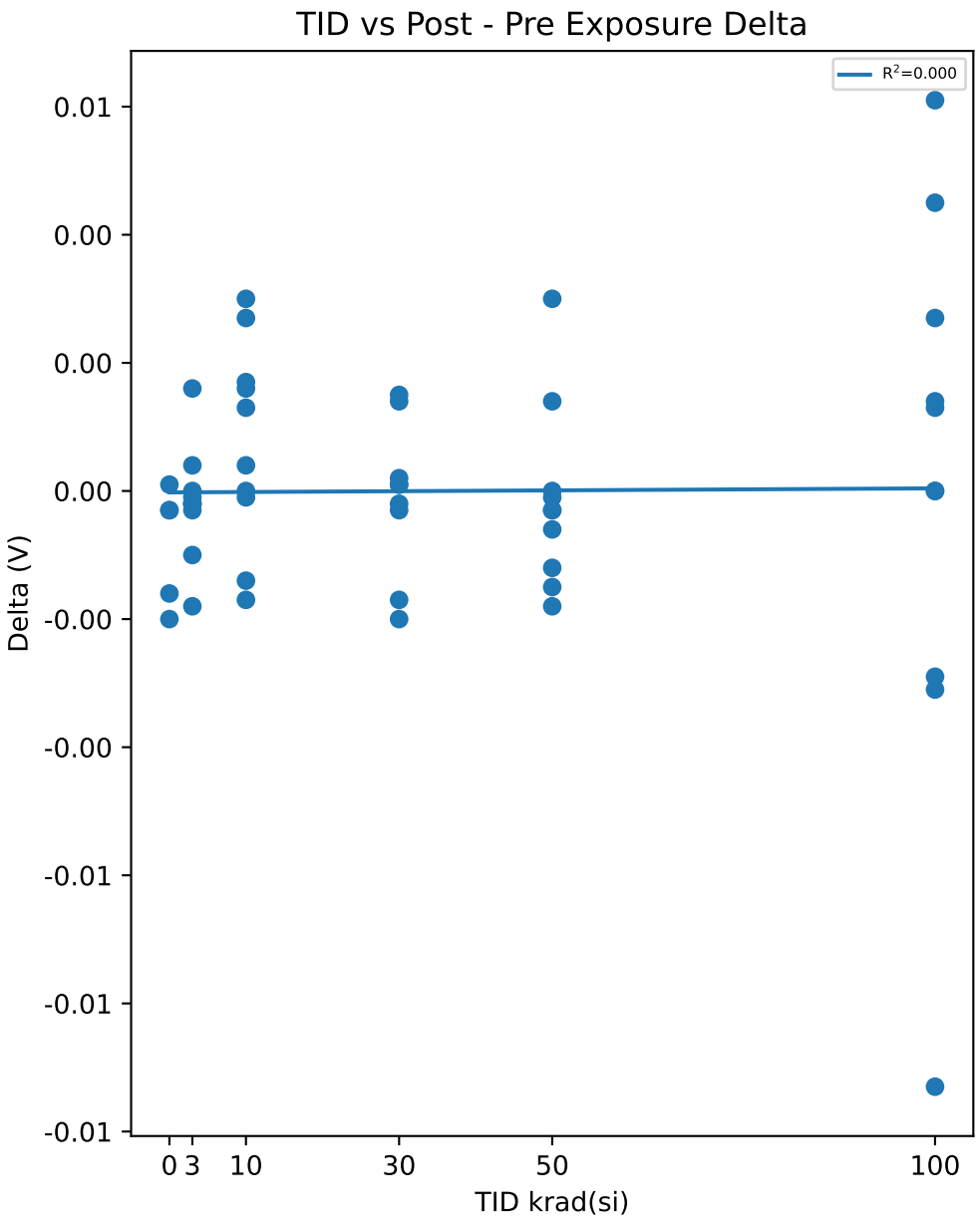
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	2.0001	1.9999	-0.0002
411	100	Unbiased	2.0001	2.0001	0
444	30	Unbiased	2.0001	2.0001	0
454	10	Unbiased	1.9999	2.0001	0.0002
491	3	Unbiased	2	2.0001	0.0001
500	100	Unbiased	2	2	0
534	100	Biased	1.9999	1.9999	0
558	0	Correlation	1.9998	2	0.0002
563	100	Biased	2.0001	2	-0.0001
570	3	Unbiased	2.0002	1.9999	-0.0003
614	10	Unbiased	1.9999	2	0.0001
675	3	Biased	1.9998	1.9998	0
713	100	Unbiased	2.0002	2.0004	0.0002
744	50	Biased	1.9998	2	0.0002
799	50	Biased	1.9998	2.0001	0.0003
842	30	Unbiased	2.0001	1.9997	-0.0004
889	3	Unbiased	2.0001	2	-0.0001
901	3	Biased	2.0001	2.0005	0.0004
930	50	Unbiased	2.0002	2	-0.0002
968	100	Unbiased	2.0002	2	-0.0002
976	100	Unbiased	2	1.9999	-0.0001
981	3	Biased	2.0001	2.0001	0
1003	10	Biased	2.0001	2	-0.0001
1039	3	Biased	2.0001	2.0001	0
1053	100	Biased	2.0001	2.0001	0
1056	0	Correlation	1.9999	2	0.0001
1072	10	Biased	2.0001	2.0004	0.0003
1095	50	Unbiased	2.0001	2.0001	0
1099	0	Correlation	1.9999	2.0001	0.0002
1113	3	Biased	1.9999	2	0.0001
1142	10	Unbiased	2.0001	2	-0.0001
1154	10	Biased	2	2.0002	0.0002
1215	50	Unbiased	2	1.9999	-0.0001
1222	100	Biased	2	2.0001	0.0001
1229	50	Unbiased	2.0001	2	-0.0001
1255	3	Unbiased	2	2	0
1331	30	Unbiased	2	2	0
1359	30	Biased	2.0001	2.0002	0.0001
1375	30	Unbiased	2.0001	2.0001	0
1398	30	Biased	2.0001	2.0001	0
1411	50	Biased	2.0001	2	-0.0001
1465	10	Unbiased	1.9999	2	0.0001
1474	50	Biased	1.9998	1.9998	0
1504	50	Biased	2	1.9998	-0.0002
1540	100	Biased	1.9999	1.9999	0
1554	3	Unbiased	1.9999	2.0001	0.0002
1662	30	Biased	1.9999	2.0001	0.0002
1679	10	Biased	2	2	0
1697	10	Biased	1.9999	1.9999	0
1703	30	Biased	1.9998	2.0004	0.0006
1704	10	Unbiased	2.0001	2.0002	0.0001
1736	30	Biased	2	1.9998	-0.0002
1737	0	Correlation	2.0001	2	-0.0001
1748	0	Correlation	1.9999	2	0.0001

Test Statistics ()

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.9998	1.9999	2.0001	0.00010954	2	2	2.0001	4.4721e-05	-0.0001	0.0001	0.0002	0.00012247
3	1.9998	2	2.0002	0.00012293	1.9998	2.0001	2.0005	0.00018379	-0.0003	4e-05	0.0004	0.00018379
10	1.9999	2	2.0001	9.4281e-05	1.9999	2.0001	2.0004	0.00014757	-0.0001	8e-05	0.0003	0.00013166
30	1.9998	2	2.0001	0.00010929	1.9997	2.0001	2.0004	0.00020683	-0.0004	3.3333e-05	0.0006	0.00027386
50	1.9998	2	2.0002	0.00014907	1.9998	2	2.0001	0.0001075	-0.0002	-4e-05	0.0003	0.00017127
100	1.9999	2.0001	2.0002	0.00010801	1.9999	2	2.0004	0.00015055	-0.0002	-1e-05	0.0002	0.00011005

Device Test: 28.7 VOLTAGE|OC/CS/12/12/0/0/5/100kHz//@V_CS_ILIM_OC





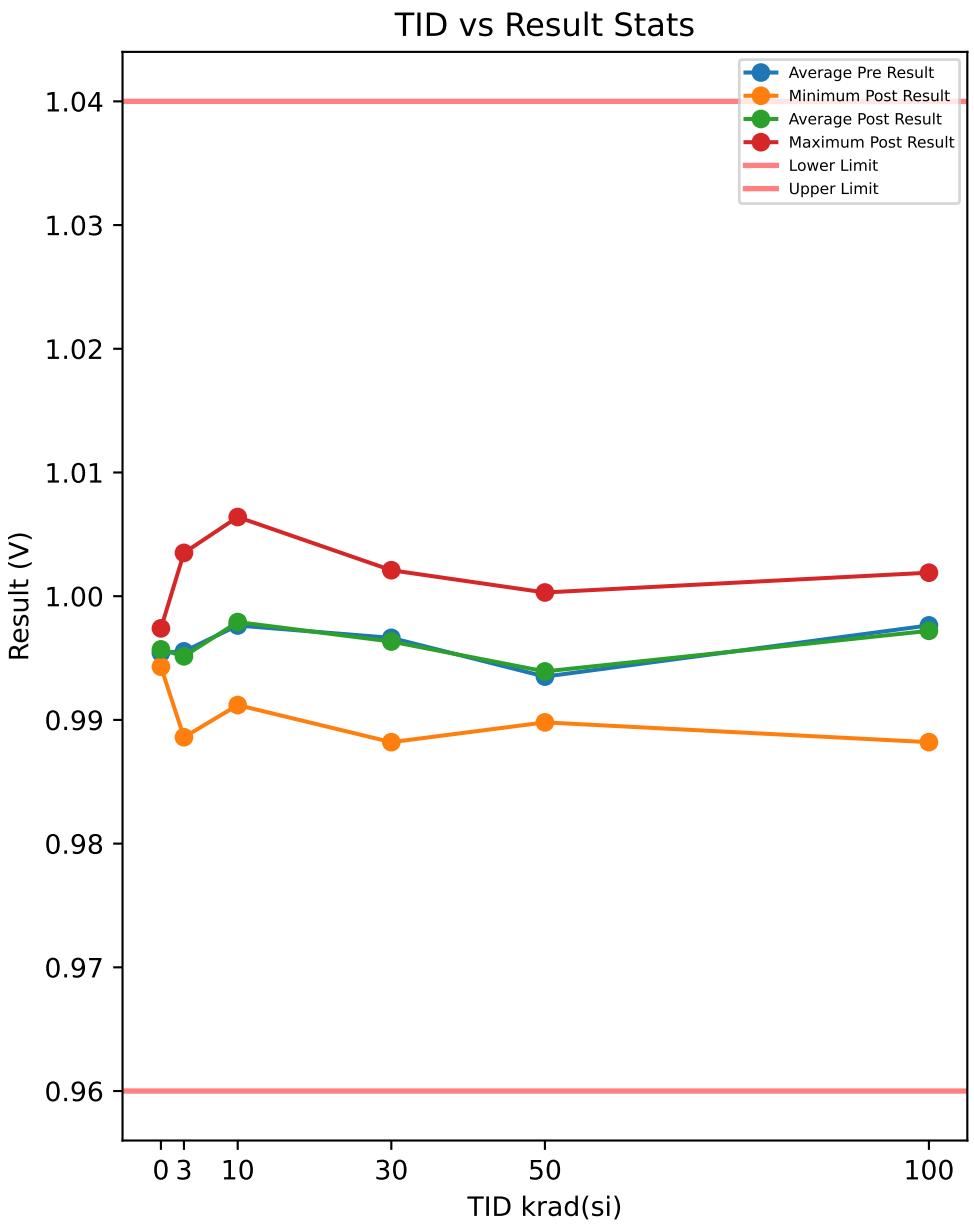
Test Results (Lower Limit = 0.96, Upper Limit = 1.04 (V))

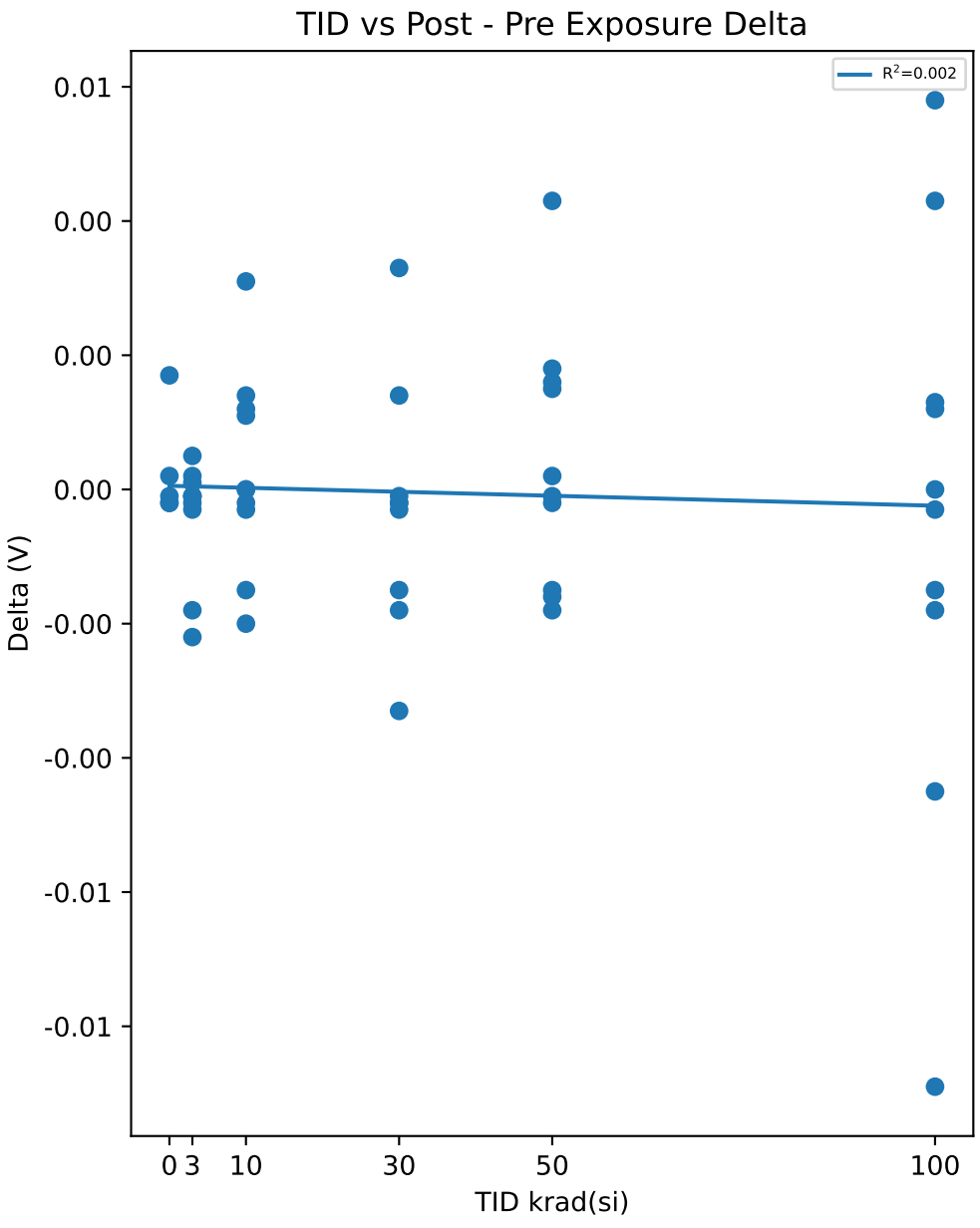
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	0.9928	0.9916	-0.0012
411	100	Unbiased	0.9974	0.9988	0.0014
444	30	Unbiased	1.0019	1.002	0.0001
454	10	Unbiased	0.9961	0.9988	0.0027
491	3	Unbiased	0.9973	0.9973	0
500	100	Unbiased	0.9914	0.9883	-0.0031
534	100	Biased	0.99	0.9961	0.0061
558	0	Correlation	0.9962	0.9959	-0.0003
563	100	Biased	0.9961	0.9988	0.0027
570	3	Unbiased	0.9916	0.9898	-0.0018
614	10	Unbiased	0.9974	0.9957	-0.0017
675	3	Biased	0.9989	0.9979	-0.001
713	100	Unbiased	1.0034	0.9941	-0.0093
744	50	Biased	0.9883	0.9883	0
799	50	Biased	0.9974	0.9988	0.0014
842	30	Unbiased	1.0019	1.0021	0.0002
889	3	Unbiased	0.9989	0.9987	-0.0002
901	3	Biased	0.9915	0.9913	-0.0002
930	50	Unbiased	0.9961	0.9958	-0.0003
968	100	Unbiased	0.9989	0.9989	0
976	100	Unbiased	1.0049	1.002	-0.0029
981	3	Biased	1.0034	1.0033	-0.0001
1003	10	Biased	1.0034	1.0064	0.003
1039	3	Biased	0.9885	0.9883	-0.0002
1053	100	Biased	0.9973	0.9973	0
1056	0	Correlation	0.9989	0.9973	-0.0016
1072	10	Biased	0.9913	0.993	0.0017
1095	50	Unbiased	0.9916	0.9913	-0.0003
1099	0	Correlation	0.9962	0.9942	-0.002
1113	3	Biased	0.9916	0.992	0.0004
1142	10	Unbiased	0.9991	1.0004	0.0013
1154	10	Biased	0.9961	0.9977	0.0016
1215	50	Unbiased	0.9977	0.9971	-0.0006
1222	100	Biased	0.9976	1.0021	0.0045
1229	50	Unbiased	0.9916	0.9898	-0.0018
1255	3	Unbiased	0.9976	0.9973	-0.0003
1331	30	Unbiased	0.9884	0.9885	0.0001
1359	30	Biased	0.9961	0.9941	-0.002
1375	30	Unbiased	0.9947	0.9945	-0.0002
1398	30	Biased	0.9961	0.9944	-0.0017
1411	50	Biased	0.9974	0.9973	-0.0001
1465	10	Unbiased	0.9946	0.9932	-0.0014
1474	50	Biased	0.9959	0.9944	-0.0015
1504	50	Biased	0.9899	0.9929	0.003
1540	100	Biased	0.9976	0.9989	0.0013
1554	3	Unbiased	0.9944	0.996	0.0016
1662	30	Biased	0.9944	0.9941	-0.0003
1679	10	Biased	0.9929	0.9928	-0.0001
1697	10	Biased	1.0034	1.0034	0
1703	30	Biased	0.9988	1.0003	0.0015
1704	10	Unbiased	0.9988	0.9992	0.0004
1736	30	Biased	0.9944	0.9958	0.0014
1737	0	Correlation	0.9944	0.9945	0.0001
1748	0	Correlation	0.9946	0.9943	-0.0003

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.9944	0.99606	0.9989	0.0018022	0.9942	0.99524	0.9973	0.0013409	-0.002	-0.00082	0.0001	0.00092033
3	0.9885	0.99537	1.0034	0.0045903	0.9883	0.99519	1.0033	0.0046765	-0.0018	-0.00018	0.0016	0.0008728
10	0.9913	0.99731	1.0034	0.0040201	0.9928	0.99806	1.0064	0.0045702	-0.0017	0.00075	0.003	0.0015925
30	0.9884	0.9963	1.0019	0.0042018	0.9885	0.9962	1.0021	0.0044674	-0.002	-0.0001	0.0015	0.0011832
50	0.9883	0.99387	0.9977	0.0034468	0.9883	0.99373	0.9988	0.0035056	-0.0018	-0.00014	0.003	0.0014238
100	0.99	0.99746	1.0049	0.0045583	0.9883	0.99753	1.0021	0.0040401	-0.0093	7e-05	0.0061	0.0043826

Device Test: 28.8 VOLTAGE|OC/CS/14/14/0/0/5/100kHz//@V_CS_ILIM_OC





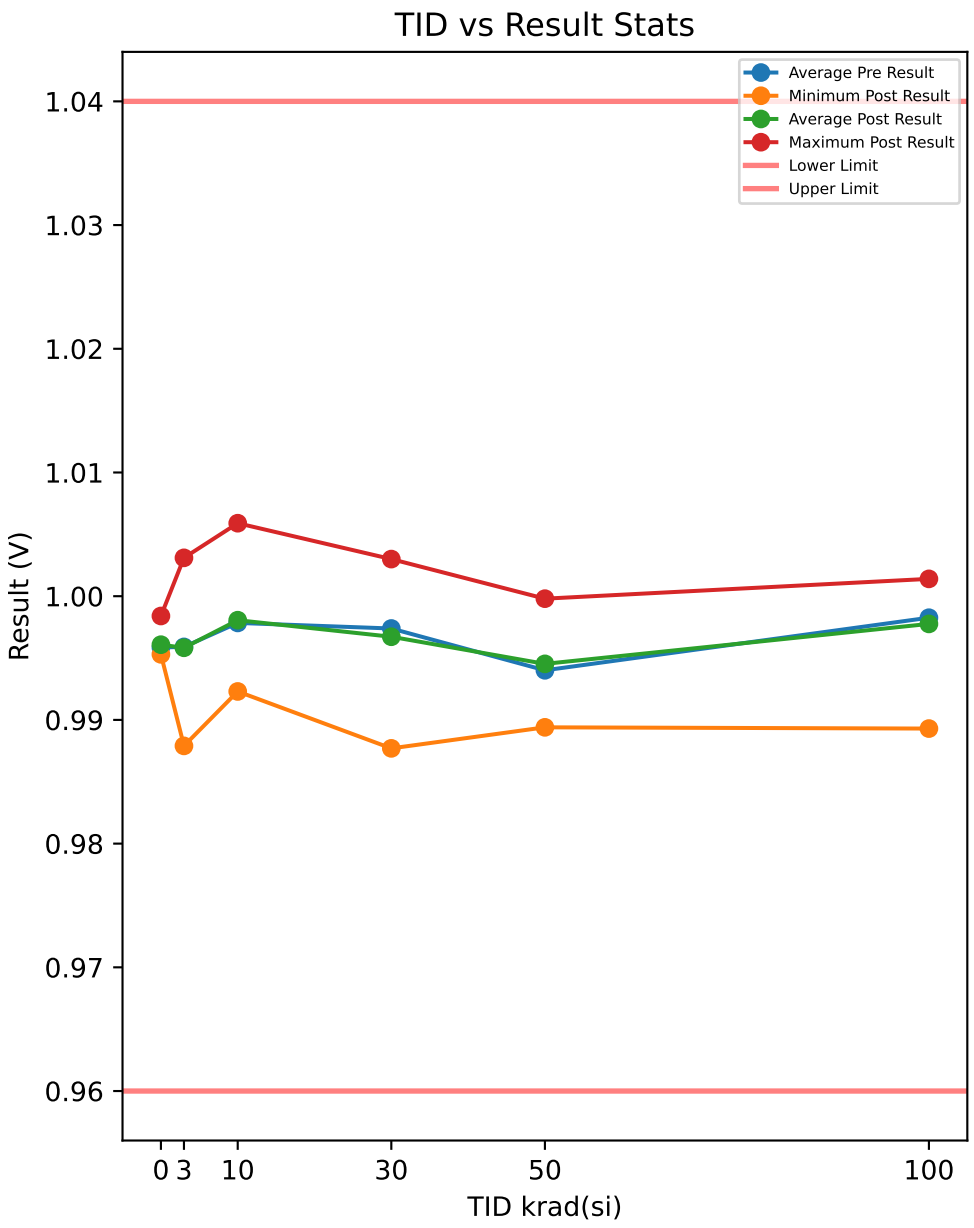
Test Results (Lower Limit = 0.96, Upper Limit = 1.04 (V))

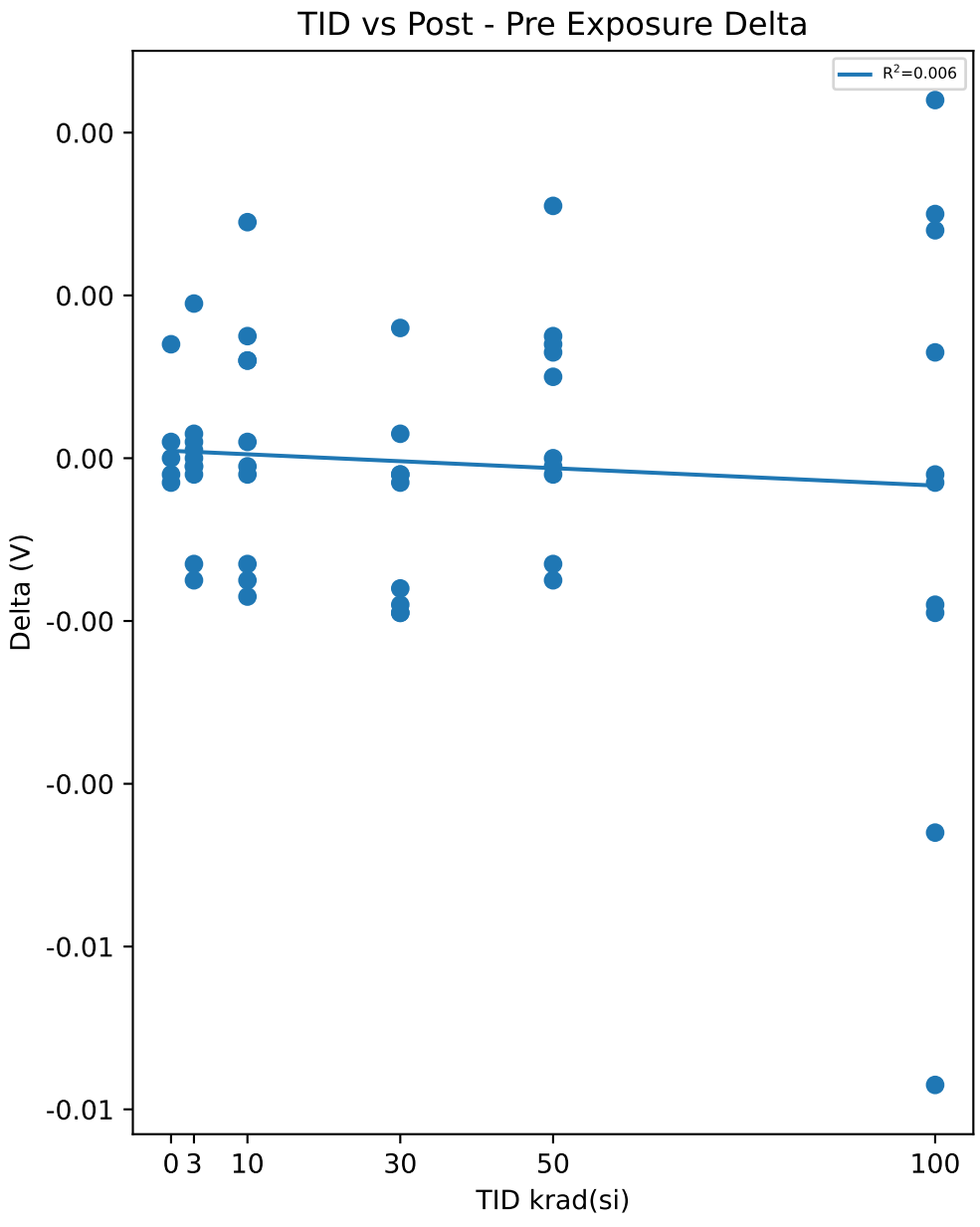
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	0.9929	0.9913	-0.0016
411	100	Unbiased	0.9977	0.999	0.0013
444	30	Unbiased	1.0021	1.0018	-0.0003
454	10	Unbiased	0.9977	0.9988	0.0011
491	3	Unbiased	0.9974	0.9973	-0.0001
500	100	Unbiased	0.9897	0.9882	-0.0015
534	100	Biased	0.99	0.9958	0.0058
558	0	Correlation	0.9961	0.9959	-0.0002
563	100	Biased	0.9976	0.9988	0.0012
570	3	Unbiased	0.9916	0.9898	-0.0018
614	10	Unbiased	0.9973	0.9958	-0.0015
675	3	Biased	0.9993	0.9971	-0.0022
713	100	Unbiased	1.0034	0.9945	-0.0089
744	50	Biased	0.9883	0.9899	0.0016
799	50	Biased	0.9988	1.0003	0.0015
842	30	Unbiased	1.0019	1.0018	-0.0001
889	3	Unbiased	0.9989	0.9986	-0.0003
901	3	Biased	0.9915	0.9914	-0.0001
930	50	Unbiased	0.9958	0.996	0.0002
968	100	Unbiased	0.9992	0.9989	-0.0003
976	100	Unbiased	1.0049	1.0004	-0.0045
981	3	Biased	1.0034	1.0035	0.0001
1003	10	Biased	1.0033	1.0064	0.0031
1039	3	Biased	0.9884	0.9886	0.0002
1053	100	Biased	0.9989	0.9971	-0.0018
1056	0	Correlation	0.9976	0.9974	-0.0002
1072	10	Biased	0.9931	0.9943	0.0012
1095	50	Unbiased	0.9914	0.9912	-0.0002
1099	0	Correlation	0.9943	0.996	0.0017
1113	3	Biased	0.9914	0.9919	0.0005
1142	10	Unbiased	0.9991	1.0005	0.0014
1154	10	Biased	0.9959	0.9956	-0.0003
1215	50	Unbiased	0.9976	0.9975	-0.0001
1222	100	Biased	0.9976	1.0019	0.0043
1229	50	Unbiased	0.9916	0.9898	-0.0018
1255	3	Unbiased	0.9991	0.9989	-0.0002
1331	30	Unbiased	0.9884	0.9882	-0.0002
1359	30	Biased	0.9976	0.9943	-0.0033
1375	30	Unbiased	0.9963	0.9945	-0.0018
1398	30	Biased	0.9959	0.9944	-0.0015
1411	50	Biased	0.9958	0.9976	0.0018
1465	10	Unbiased	0.9943	0.9943	0
1474	50	Biased	0.9943	0.9928	-0.0015
1504	50	Biased	0.9885	0.9928	0.0043
1540	100	Biased	0.9974	0.9974	0
1554	3	Unbiased	0.9944	0.9943	-0.0001
1662	30	Biased	0.9943	0.9941	-0.0002
1679	10	Biased	0.9914	0.9912	-0.0002
1697	10	Biased	1.0035	1.0035	0
1703	30	Biased	0.9988	1.0021	0.0033
1704	10	Unbiased	1.0007	0.9987	-0.002
1736	30	Biased	0.9944	0.9958	0.0014
1737	0	Correlation	0.9944	0.9943	-0.0001
1748	0	Correlation	0.9947	0.9949	0.0002

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.9943	0.99542	0.9976	0.0014167	0.9943	0.9957	0.9974	0.0011853	-0.0002	0.00028	0.0017	0.00081056
3	0.9884	0.99554	1.0034	0.004768	0.9886	0.99514	1.0035	0.0047256	-0.0022	-0.0004	0.0005	0.00087813
10	0.9914	0.99763	1.0035	0.0041058	0.9912	0.99791	1.0064	0.0046228	-0.002	0.00028	0.0031	0.0014838
30	0.9884	0.99663	1.0021	0.0042149	0.9882	0.99633	1.0021	0.0046861	-0.0033	-0.0003	0.0033	0.0018908
50	0.9883	0.9935	0.9988	0.0035985	0.9898	0.99392	1.0003	0.0036711	-0.0018	0.00042	0.0043	0.0019124
100	0.9897	0.99764	1.0049	0.0048464	0.9882	0.9972	1.0019	0.0038198	-0.0089	-0.00044	0.0058	0.0041948

Device Test: 28.9 VOLTAGE|OC/CS/12/12/0/0/5/500kHz//@V_CS_ILIM_OC





Test Results (Lower Limit = 0.96, Upper Limit = 1.04 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
390	50	Unbiased	0.9941	0.9928	-0.0013
411	100	Unbiased	0.9987	1	0.0013
444	30	Unbiased	1.0032	1.003	-0.0002
454	10	Unbiased	0.9971	0.9983	0.0012
491	3	Unbiased	0.9983	0.9984	0.0001
500	100	Unbiased	0.9912	0.9893	-0.0019
534	100	Biased	0.991	0.9954	0.0044
558	0	Correlation	0.9954	0.9954	0
563	100	Biased	0.9971	0.9999	0.0028
570	3	Unbiased	0.9911	0.991	-0.0001
614	10	Unbiased	0.9969	0.9952	-0.0017
675	3	Biased	0.9986	0.9989	0.0003
713	100	Unbiased	1.003	0.9953	-0.0077
744	50	Biased	0.9879	0.9894	0.0015
799	50	Biased	0.9984	0.9998	0.0014
842	30	Unbiased	1.0029	1.0013	-0.0016
889	3	Unbiased	1	0.9987	-0.0013
901	3	Biased	0.9924	0.9923	-0.0001
930	50	Unbiased	0.9968	0.9968	0
968	100	Unbiased	0.9986	0.9984	-0.0002
976	100	Unbiased	1.006	1.0014	-0.0046
981	3	Biased	1.0029	1.0031	0.0002
1003	10	Biased	1.0047	1.0059	0.0012
1039	3	Biased	0.9894	0.9879	-0.0015
1053	100	Biased	0.9984	0.9981	-0.0003
1056	0	Correlation	0.9987	0.9984	-0.0003
1072	10	Biased	0.9924	0.9953	0.0029
1095	50	Unbiased	0.9911	0.9924	0.0013
1099	0	Correlation	0.9957	0.9955	-0.0002
1113	3	Biased	0.9909	0.9928	0.0019
1142	10	Unbiased	0.9999	1.0014	0.0015
1154	10	Biased	0.9971	0.9969	-0.0002
1215	50	Unbiased	0.9988	0.9986	-0.0002
1222	100	Biased	0.9984	1.0014	0.003
1229	50	Unbiased	0.9909	0.9908	-0.0001
1255	3	Unbiased	0.9999	0.9999	0
1331	30	Unbiased	0.9895	0.9877	-0.0018
1359	30	Biased	0.9969	0.995	-0.0019
1375	30	Unbiased	0.9957	0.9954	-0.0003
1398	30	Biased	0.9973	0.9954	-0.0019
1411	50	Biased	0.9971	0.9981	0.001
1465	10	Unbiased	0.9938	0.994	0.0002
1474	50	Biased	0.9955	0.994	-0.0015
1504	50	Biased	0.9895	0.9926	0.0031
1540	100	Biased	1.0002	0.9984	-0.0018
1554	3	Unbiased	0.9955	0.9953	-0.0002
1662	30	Biased	0.9955	0.9958	0.0003
1679	10	Biased	0.9924	0.9923	-0.0001
1697	10	Biased	1.0043	1.0028	-0.0015
1703	30	Biased	1	1.0016	0.0016
1704	10	Unbiased	0.9998	0.9985	-0.0013
1736	30	Biased	0.9955	0.9953	-0.0002
1737	0	Correlation	0.9939	0.9953	0.0014
1748	0	Correlation	0.9956	0.9958	0.0002

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.9939	0.99586	0.9987	0.0017473	0.9953	0.99608	0.9984	0.0013103	-0.0003	0.00022	0.0014	0.00068702
3	0.9894	0.9959	1.0029	0.0046852	0.9879	0.99583	1.0031	0.0047355	-0.0015	-7e-05	0.0019	0.00092502
10	0.9924	0.99784	1.0047	0.0044016	0.9923	0.99806	1.0059	0.0042445	-0.0017	0.00022	0.0029	0.0014898
30	0.9895	0.99739	1.0032	0.0042342	0.9877	0.99672	1.003	0.0046757	-0.0019	-0.00066667	0.0016	0.0012166
50	0.9879	0.99401	0.9988	0.0039099	0.9894	0.99453	0.9998	0.003559	-0.0015	0.00052	0.0031	0.0014062
100	0.991	0.99826	1.006	0.0045993	0.9893	0.99776	1.0014	0.0036549	-0.0077	-0.0005	0.0044	0.0036941

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